CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 20, 1905.

CONTENTS.

CIVIL SERVICE EXAMINATIONS 141
CONSTRUCTION NEWS:
Plans and Specifications on File 141
List of Contracts Pending 141
Railways 142
Street and Electric Railways 143
Light, Heat and Power Plants 143
Bridges 144
Buildings 144
Water Supply and Irrigation 145
Sewerage 146
Garbage Disposal and Street Cleaning 147
Streets and Roads 147
Manufacturing Plants 148
Miscellaneous Contracts 148
Mexico 149
Foreign Contracts and Export News 150
Contract Prices 150
READERS' WANTS 149
INDUSTRIAL NOTES 151
PROPOSALS 152

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

TESTING ENGINEER.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained will hold an examination May 17, to fill a vacancy in the position of engineer of timber tests in the Bureau of Forestry, Department of Agriculture, at $1,000 per year, and similar vacancies as they may occur.

STEAM SHOVEL CREW.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, will hold an examination May 1 to fill vacancies in steam shovel crews, as follows: Steam shovel engineer, $190 per month and bonus; craneman, $165 per month and bonus; fireman, $83.33 per month; pitman, $75 per month.

EXAMINER IN MECHANICAL ENGINEERING.—Municipal Civil Service Commission, Henry Berlinger, Secy., 61 Elm St., New York City, will hold an examination May 4 for the position of civil service examiner in mechanical engineering, at a salary of $10 per session of seven hours when employed. Applications will be received until 4 p. m., April 28. The official advertisement will be found under "Situations Open," in this issue of the Engineering News.

FOREMAN, MINING SUPERINTENDENT, ETC.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, will hold examinations March 10 to fill vacancies in the following positions under the Isthmian Canal Commission on the Isthmus of Panama. General foreman of laborers, $100 to $125 per month; foreman of laborers, $75 to $83.33; assistant foreman of laborers, $50 to $60 per month; superintendent mining department, $250 per month; general foreman mining department, $150 per month; miner, $150 to $175 per month. No educational tests are required for above examinations.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Apr.				
22	Plumbing, etc.	Charleston, S. C.	S	3-30
29	Coal plant	New Orleans, La.	S	3- 9
29	Firepf. stairways	Boston, Mass.	S	4-13
*29	Pipe laying, etc.	Waterville, Me.	P. & S	4-13
*29	Paving, etc.	Wilkesbarre, Pa.	S	4-13
May				
*1	Bridge, steel	Washington, D. C.	S	4- 6
*5	Water pipe	West Point, N. Y.	S	4-13
6	Quay wall	Bremerton, Wash.	S	3-23
6	Cableways	Washington, D. C.	S	4-13
*9	Road work	Atlantic City, N. J.	P. & S	4-13
11	Breakwater	Los Angeles, Cal.	S	4-20
*14	Water-works	Mansfield, La.	S	2- 2
Sept.				
1	Steel manufacture	New S. Wales	S	3-23

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Apr. 20. Electric station, New York, N. Y. .... Apr. 13
Apr. 20. Lighting, etc., Barnesville, O. .... Apr. 13
Apr. 20. Electric plant, Lindsborg, Kan. .... Apr. 13
Apr. 24. City lighting, Janesville, Wis. .... Apr. 6
Apr. 25. Electric light plant, Watkins, N. Y. .... Apr. 13
Apr. 25. Generator, Chicago, Ill. .... Apr. 20
Apr. 26. Public lighting, Des Moines, Ia. .... Apr. 13
Apr. 27. City lighting, Ligonier, Ind. .... Mar. 30
May 1. Arc lights, etc., Meridian, Mass. .... Apr. 13
May 1. Generating unit, Moorhead, Minn. .... Apr. 20
May 1. Gas mains, etc., Pittsburg, Pa. .... Apr. 20
May 2. Lighting, Oswego, N. Y. .... Apr. 6
Advertised, Eng. News, Apr. 6 to Apr. 27.
May 2. Power house, Lafayette, Ind. .... Apr. 20
May 3. Public lighting, Washington, D. C. .... Apr. 13
May 5. Electric plant sale, Port Arthur, Ont. .... Apr. 13
May 8. City lighting, Binghamton, N. Y. .... Apr. 20
Advertised, Eng. News, Apr. 20 and 27.
May 15. Electric plant, Jewell City, Kan. .... Mar. 23

BRIDGES.

Apr. 21. Approach, Cincinnati, O. .... Mar. 30
Apr. 21. Bridges, Tacoma, Wash. .... Apr. 6
Apr. 24. Bridge, Peoria, Ill. .... Apr. 20
Apr. 25. Pile bridge, Elgin, Ill. .... Apr. 20
Apr. 25. Bridge, Indianapolis, Ind. .... Apr. 6
Apr. 25. Concrete arch, Cleveland Heights, O. .... Apr. 6
Apr. 26. Bridge, Denver, Colo. .... Apr. 6
Apr. 28. Bridges, steel, Neligh, Neb. .... Apr. 20
Apr. 29. Culverts, etc., Cleveland, O. .... Apr. 13
May 1. Bridge, steel, Greenwood, Ark. .... Apr. 13
Advertised, Eng. News, Apr. 13.
May 1. Bridge steel, Quincy, Cal. .... Apr. 6
May 1. Bridge, steel, Washington, D. C. .... Apr. 6
Advertised, Eng. News, Apr. 6 and 13.
May 1. Bridge, Richland Center, Ark. .... Mar. 9
May 1. Painting bridge, Allentown, Pa. .... Apr. 20
May 1. Arches, Tipton, Ind. .... Apr. 20
May 1. Bridge, Medina, O. .... Apr. 20
May 1. Abutments, cement, Bamberg, Ont. .... Apr. 20
May 2. Bridges, steel, Carrollton, Mo. .... Apr. 20
May 2. Bridge, Norwalk, O. .... Apr. 20
May 3. Bridge, steel, Peru, Ind. .... Apr. 6
May 3. Bridges, concrete steel, Bluffton, Ind. .... Apr. 13
May 4. Bridge, Wabash, Ind. .... Apr. 13
May 4. Bridges, iron, Birmingham, Ala. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 4. Bridges, Bryan, O. .... Apr. 20
May 4. Bridges, Columbus, O. .... Apr. 20
May 5. Bridge, superstructure, Cincinnati, O. .... Apr. 13
May 10. Bridges, stone, Cleveland, O. .... Apr. 20
No date. Bridge, steel, Rat Portage, Ont. .... Apr. 20
No date. Bridges, steel, Gallipolis, O. .... Apr. 20

BUILDINGS.

Apr. 20. Court-house, Madison, Ga. .... Apr. 13
Apr. 20. Officers' quarters, West Point, N. Y. .... Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 13.
Apr. 20. Court-house, Norman, Okla. .... Apr. 6
Apr. 21. School work, Newark, N. J. .... Apr. 20
Apr. 22. School, Dexter, Ia. .... Mar. 30
Apr. 22. Plumbing, fire mains, Charleston, S. C. .... Mar. 30
Apr. 24. Steam heating, Charlottesville, Va. .... Mar. 30
Apr. 24. Brick buildings, Boston, Mass. .... Mar. 30
Apr. 24. School, New York, N. Y. .... Apr. 13
Apr. 24. Jail, court-house, St. Joseph, La. .... Apr. 13
Apr. 24. College bldgs., New York, N. Y. .... Apr. 13
Apr. 24. Town hall, Stamford, Conn. .... Apr. 20
Apr. 25. School, Indianapolis, Ind. .... Apr. 20
Apr. 25. Court-house, Seward, Neb. .... Apr. 20
Apr. 25. School, Wheeling, W. Va. .... Apr. 13
Apr. 25. Steam heating, Pierre, S. Dak. .... Mar. 30
Apr. 25. Mess rooms, Ft. McPherson, Ga. .... Apr. 6
Apr. 26. School, McMechen, W. Va. .... Apr. 13
Apr. 26. Hospital, Lancaster, Wis. .... Apr. 20
Apr. 26. School, Baltimore, Md. .... Apr. 20
Apr. 26. Wiring, plumbing, etc, Rochester, N. Y. .... Apr. 20
Advertised, Eng. News, Apr. 20.
Apr. 27. Hospital buildings, Lima, Pa. .... Apr. 20
Apr. 27. Armory repairs, New York, N. Y. .... Apr. 20
Apr. 27. Court-house, Magnolia, Ark. .... Apr. 13
Apr. 27. Post-office, Flint, Mich. .... Apr. 13
Apr. 28. High-school, Cresco, Ia. .... Apr. 13
Apr. 28. School, Providence, R. I. .... Apr. 20
Apr. 29. Church, Steubenville, O. .... Apr. 13
Apr. 29. Fireproof stairways, etc., Boston, Mass. .... Apr. 13
Apr. 29. Court-house, Norman, Okla. .... Apr. 6
Apr. 29. Heating apparatus, Wash. Barracks, D. C. .... Mar. 30
Advertised, Eng. News, Mar. 30 to Apr. 26.
Apr. 29. Bank building, Washington, D. C. .... Mar. 30
May 1. Post-office, Jacksonville, Ill. .... Apr. 13
May 1. Factory (Mfg. Pl.), Batavia, N. Y. .... Apr. 20
May 1. Supreme court plans, Jefferson City, Mo. .... Apr. 20
May 1. Iron stairways, etc., New York, N. Y. .... Apr. 20
May 2. School, Madison, Wis. .... Apr. 20
May 3. Draining, etc., Washington, D. C. .... Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 3. Court-house, Vinton, Ia. .... Mar. 30
May 5. School, Fairmount, O. .... Apr. 20
May 6. Asylum, Valparaiso, Ind. .... Apr. 20
May 6. Heating apparatus, Florence, S. C. .... Apr. 13
May 8. Interior finish, New York, N. Y. .... Mar. 16
May 8. Laundry (Mfg. Pl), Albuquerque, N. Mex. .... Apr. 20
May 9. Mechanical equipment, New York, N. Y. .... Mar. 16
May 10. Elevator equipment, New York, N. Y. .... Apr. 13
May 11. Post-office, Laramie, Wyo. .... Apr. 13
May 11. Smoke-stack, etc., Ft. Assiniboine, Mont. .... Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 12. 18 buildings, Prescott, Ariz. .... Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 13. Ornamental terra cotta, Washington, D. C. .... Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 15. Mess halls, etc., Ft. Sam Houston, Tex. .... Apr. 20
May 17. Structural steel, Washington, D. C. .... Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 20. Masonic Temple plans, Brooklyn, N. Y. .... Mar. 30
May 23. Post-office, Owosso, Mich. .... Apr. 20
May 25. Post-office, Geneva, N. Y. .... Apr. 20
June 12. Capitol plans, Boise, Idaho .... Apr. 13
June 15. Court-house plans, New Orleans, La. .... Feb. 23

WATER SUPPLY AND IRRIGATION.

Apr. 20. Water-works, Millville, Minn. .... Apr. 6
Apr. 20. Water-works, Hoisington, Kan. .... Apr. 6
Apr. 20. Water-works, Lindsborg, Kan. .... Apr. 13
Apr. 24. Water-works, White Bear, Minn. .... Apr. 13
Apr. 24. Pumps and motors, Cohoes, N. Y. .... Apr. 20
Apr. 25. Boiler work, Buffalo, N. Y. .... Apr. 20
Apr. 25. Tank and tower, Washington, D. C. .... Apr. 6
Apr. 26. Engine, boilers, Chicago, Ill. .... Apr. 13
Apr. 26. Pipe, dam, etc., Hadley, Mass. .... Apr. 20
Apr. 26. Pipe tunnel, Chicago, Ill. .... Apr. 20
Apr. 27. Water-works, Humansville, Mo. .... Apr. 20
Apr. 28. Water-works, Cassville, Mo. .... Apr. 13
Apr. 29. Pipe laying, etc., Waterville, Me. .... Apr. 13
Advertised, Eng. News, Apr. 13.
May 1. Reservoir, pumps, etc., Ft. Wright, Wash. .... Apr. 13
May 1. Tank, Salem, Va. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 1. Irrigation canal, Cody, Wyo. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 1. Water pipe, Pittsburg, Pa. .... Apr. 20
May 1. Pipe, Wilmington, Del. .... Apr. 20
Advertised, Eng. News, Apr. 20.
May 1. Filtering well, etc., Ford City, Pa. .... Apr. 20
May 1. Water-works, Scotia, N. Y. .... Apr. 20
May 1. Pipe laying, Brandon, Man. .... Apr. 20
May 1. Water-works, etc., Thief River Falls, Minn. .... Apr 20
May 1. Artesian well, Oakes, N. Dak. .... Apr. 20
May 1. Pipe laying, Sioux City, Ia. .... Apr. 20
May 2. Boiler, Norwalk, O. .... Apr. 20
May 2. Laying pipe, Cincinnati, O. .... Apr. 6
May 2. Pumping plant, Los Angeles, Cal. .... Apr. 6
May 3. Water-works, Lexington, N. C. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 3. Water-works, Bagley, Minn. .... Apr. 20
May 3. Water-works, Humboldt, Kan. .... Apr. 20
May 4. Water-works impts., De Pere, Wis. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 5. Pipe and castings, West Point, N. Y. .... Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 6. Tank and trestle, San Antonio, Tex. .... Apr. 13
May 11. Water main connection, New Orleans, La. .... Mar. 23
May 11. Water system, side track, Oswego, N. Y. .... Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 11. Laying pipe, West Point, N. Y. .... Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 12. Pipe laying, Cincinnati, O. .... Apr. 20
May 14. Water-works, Mansfield, La. .... Mar. 2
Advertised, Eng. News, Mar. 2.
May 15. Pumping engine, Montreal, Que. .... Mar. 9
Advertised, Eng. News, Mar. 9.
May 16. Irrigation canals, Denver, Colo. .... Mar. 23
Advertised, Eng. News, Mar. 23 to May 4.
June 1. Irrigation canals, etc., Glendive, Mont. .... Apr. 6
Advertised, Eng. News, Apr. 6 to May 18.

SEWERAGE.

Apr. 20. Cast-iron sewers, Salem, Mass. .... Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 20. Sewers, Wilton, N. H. .... Apr. 6
Advertised, Eng. News, April 6 and 13.
Apr. 21. Sewer, Eden, Me. .... Apr. 20
Apr. 22. Sewer franchise, Hopkinsville, Ky. .... Apr. 20
Apr. 24. Sewerage, Edmonton, Alta. .... Apr. 20
Apr. 24. Sewer system, Ellendale, N. Dak. .... Apr. 20
Apr. 24. Sewer, Lafayette, Ind. .... Apr. 13
Apr. 24. Sewers, Muskogee, Ind. T. .... Apr. 13
Apr. 25. Drain, Arden, Man. .... Apr. 20
Apr. 25. Sewage beds, mains, etc., Berlin, Ont. .... Apr. 20
Apr. 26. Sewer work, Ft. Caswell, N. C. .... Apr. 20
Apr. 26. Sewer, New York, N. Y. .... Apr. 20
Apr. 26. Sewers, Brooklyn, N. Y. .... Apr. 13
May 1. Sewer, Lexington, Ky. .... Mar. 30
May 1. Sewer system, Galt, Ont. .... Apr. 20
May 1. Sewer system, Thief River Falls, Minn. .... Apr. 20
May 1. Five miles sewers, Pittsburg, Pa. .... Apr. 20
May 2. Sewers (in 1905), St. Louis, Mo. .... Apr. 20
May 2. Sewers, Waterbury, Conn. .... Apr. 13
May 4. Sewerage, Saltsburg, Pa. .... Apr. 13
May 12. Sewer system, Idaho, Falls, Idaho .... Apr. 20

STREETS AND ROADS.

Apr. 20. Grading, Gettysburg, Pa. .... Mar. 30
Apr. 20. Grading, etc., New York, N. Y. .... Apr. 13
Apr. 21. Paving, Traverse City, Mich. .... Apr. 13
Apr. 21. Paving, Attica, Ind. .... Apr. 13
Apr. 21. Stone pike, Bucyrus, O. .... Apr. 13
Apr. 21. Paving, Cincinnati, O. .... Mar. 23
Apr. 22. Road, gravel, Williamsport, Ind. .... Apr. 13
Apr. 22. Roads, Bluffton, Ind. .... Apr. 13
Apr. 22. Sidewalks, etc., Midland, Ont. .... Apr. 20
Apr. 22. Grading, Washington, D. C. .... Apr. 20
Advertised, Eng. News, Apr. 20.
Apr. 24. Paving, Syracuse, N. Y. .... Apr. 20
Apr. 24. Paving, asphalt, New Orleans, La. .... Apr. 20
Apr. 24. Paving, Wilkesbarre, Pa. .... Apr. 20
Apr. 24. Macadam, Mt. Vernon, Ind. .... Apr. 13
Apr. 24. Sidewalks, Muncie, Ind. .... Apr. 13
Apr. 24. Roads, McKeesport, Pa. .... Apr. 13
Apr. 24. Macadam roads, Pittsburg, Pa. .... Apr. 13
Apr. 24. Roads, Bowling Green, O. .... Apr. 13
Apr. 24. Macadamizing Cincinnati, O. .... Apr. 6
Apr. 24. Paving, etc., Wellsville, O. .... Apr. 6
Apr. 25. Grading, Indianapolis, Ind. .... Apr. 6
Apr. 25. Paving, St. Louis, Mo. .... Apr. 20
Apr. 25. Road, Mankato, Minn. .... Apr. 20
Apr. 25. Sidewalk, Parry Sound, Ont. .... Apr. 20
Apr. 26. Paving, Paducah, Ky. .... Apr. 20
Apr. 26. Paving, Hoboken, N. J. .... Apr. 6
Apr. 26. Paving, Brooklyn, N. Y. .... Apr. 13
Apr. 26. Paving, Cincinnati, O. .... Apr. 13
Apr. 27. Paving, Augusta, Ga. .... Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
Apr. 28. Sidewalks, etc., Youngstown, O. .... Apr. 13
Apr. 29. Macadam road, Wilkesbarre, Pa. .... Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 29. Paving, etc., East St. Louis, Ill. .... Apr. 20
Apr. 30. Road, Vicksburg, Miss. .... Mar. 23
May 1. Paving, Evansville, Ind. .... Mar. 30
May 1. Paving, brick, Bucyrus, O. .... Apr. 13
May 1. Paving, etc., Pittsburg, Pa. .... Apr. 20
May 1. Road, Vernon, Ind. .... Apr. 20
May 1. Sidewalks, Ft. Porter, N. Y. .... Apr. 20
May 1. Paving, brick, New Brunswick, N. J. .... Apr. 20
May 1. Roads, Bedford, Ind. .... Apr. 20
May 2. Sidewalks, Waterbury, Conn. .... Apr. 20
May 2. Macadamizing, Trenton, N. J. .... Apr. 20
May 2. Macadam road, Versailles, Ind. .... Apr. 13
May 2. Roads, Bloomfield, Ind. .... Apr. 6
May 3. Paving, Brooklyn, N. Y. .... Apr. 20
May 4. Macadamizing, Cincinnati, O. .... Apr. 13

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

May 4. Paving, brick, Akron, O. ....Apr. 20
May 4. Paving, St. Charles, Mo. ....Apr. 20
May 5. Sidewalks, etc., Holyoke, Mass. ....Apr. 20
Advertised, Eng. News, Apr. 20 and 27.
May 6. Paving, Cleveland, O. ....Apr. 20
May 6. Road, Washington, Pa. ....Apr. 13
May 9. Graveling, Atlantic City, N. J. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 9. Gravel roads, Peru, Ind. ....Apr. 20
May 9. Paving, Wellsville, N. Y. ....Apr. 20
Advertised, Eng. News, Apr. 20 and 27.
May 10. Granolithic walks, Ft. Greble, R. I. .....Apr. 20
May 10. Paving, Cincinnati, O. ....Apr. 20
May 13. Macadamizing, Norwood, O. ....Apr. 20
June 1. Paving, brick, Fremont, O. ....Mar. 16
No date. Turnpike, Harrodsburg, Ky. ....Apr. 20

MISCELLANEOUS CONTRACTS.

Apr. 20. Trap rock, cement, New York, N. Y. ....Apr. 13
Apr. 20. Street sprinkling, Rome, N. Y. ....Apr. 13
Apr. 20. Lumber, New York, N. Y. ....Apr. 13
Apr. 21. Bulkhead, Lorain, O. ....Apr. 13
Apr. 21. Drainage, Havana, Ill. ....Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 22. Railway grading, Albuquerque Eastern Ry. Apr. 20
Apr. 22. Dredging, Grand Rapids, Mich. ....Apr. 20
Apr. 24. Cement, Edmonton, Alta. ....Apr. 20
Apr. 24. Garbage plant, Los Angeles, Cal. ....Apr. 6
Apr. 25. Rails, wire, lathe, etc., Washington, D. C. Mar. 30
Apr. 25. Wireless telegraph, Washington, D. C. ....Apr. 13
Apr. 25. Cable, drills, etc., Washington, D. C. ...Apr. 13
Apr. 25. Sprinkling trucks, New York, N. Y. ....Apr. 13
Apr. 26. Repairing baths, Brooklyn, N. Y. ....Apr. 20
Apr. 27. Road roller, West Point, N. Y. ....Apr. 20
Apr. 28. Street sweeping, Akron, O. ....Apr. 20
Apr. 27. Trap rock, Holyoke, Mass. ....Apr. 6
Apr. 28. Garbage collection, Washington, D. C. ....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
Apr. 29. Fire engine, etc., Champaign, Ill. ....Apr. 13
Apr. 29. Dock, Burlington, Vt. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
Apr. 29. Ditch work, Monticello, Ill. ....Mar. 30
May 1. Electric railway, Toronto, Ont. ....Mar. 30
May 1. Machinery, etc., Washington, D. C. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 1. Ordnance supplies, Dover, N. J. ....Apr. 13
May 1. Castings, Washington, D. C. ....Apr. 13
May 1. Building railway, Toronto & Hamilton Ry. Apr. 13
May 1. Cement, sand, etc., Portland, Me. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 1. Cement, Picton, Ont. ....Apr. 20
May 1. Ferry structures, New York, N. Y. ....Apr. 20
May 2. Drainage ditches, Breckenridge, Minn. ....Apr. 20
May 2. Panel boards, etc., Washington, D. C. ....Apr. 20
May 2. Machine tools, Washington, D. C. ....Apr. 13
May 2. Drainage ditches, Breckenridge, Minn. ....Apr. 13
May 2. Track tools, metals, etc., Wash., D. C. ..Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Steam shovels, Washington, D. C. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Dam work, Wheeling, W. Va. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Dredging, Newport, R. I. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Jetty, Newport, R. I. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Ordnance supplies, Springfield, Mass. ....Apr. 13
May 4. Garbage collection, Philadelphia, Pa. ....Apr. 13
May 6. Cableways, Washington, D. C. ....Apr. 13
May 6. Breakwater work, Cleveland, O. ....Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 8. Dredging, Newport, R. I. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 9. Conduit, trucks, motors, etc, Wash., D. C. Apr. 13
May 9. Cement piles, etc., Washington, D. C. ....Apr. 20
May 10. Dredging, Newport, R. I. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 10. Cable, Washington, D. C. ....Apr. 20
May 10. Earth spreaders, etc., Washington, D. C. ..Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 11. Switchboards, Washington, D. C. ....Apr. 20
May 11. Paints, oils, etc., Washington, D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 11. Breakwater, Los Angeles, Cal. ....Apr. 20
May 12. Ranges, stoves, etc., Washington, D. C. ..Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 12. Tinsmiths' supplies, etc., Wash., D. C. ..Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 12. Hose, rope, etc., Washington, D. C. ......Apr. 20
May 12. Rock removal, New York, N. Y. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 13. Brooms, etc., Washington, D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 13. Riprap, Duluth, Minn. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 13. Machinery, etc., Washington, D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 13. Pier work, Buffalo, N. Y. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 15. Rock excavation, Chicago, Ill. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 4.
May 15. Excavation, Buffalo, N. Y. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 15. Paints and oils, etc., Wash., D. C. ......Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 15. Dredging, Newport, R. I. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 16. Machinery, Washington, D. C. ....Apr. 13
May 16. Cement, Wheeling, W. Va. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 16. Dredging, pier work, Milwaukee, Wis. .....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 16. Lumber, piles, etc., Washington, D. C. ...Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 17. Miscellaneous supplies, Wash., D. C. .....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 18. Brick clay, doors, etc., Wash., D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 18. Explosives, Washington, D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 18. Sanitary fixtures, etc., Washington, D. C. Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 19. Lumber, Washington, D. C. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 25.
May 19. Pier work, Cleveland, O. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 19. Jetty work, Savannah, Ga. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 18.
May 20. Breakwater, Buffalo, N. Y. ....Apr. 20
Advertised, Eng. News, Apr. 20 to May 25.
May 23. Machine tools, Washington, D. C. ....Apr. 20
July 1. Street Railway, Chicago, Ill. ....Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
Sept. 1. Steel manufacture, New South Wales. .Mar. 23
Advertised, Eng. News, Mar. 30 to June 29.
Apr. 2, 1906. Port works, Chile. ....Apr. 20
No date. Grading work, Oglethorpe, Ga. ....Apr. 20
Advertised, Eng. News, April 20.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALBUQUERQUE, EASTERN.—Bids are asked until April 22, by Pennsylvania Development Co. for grading a portion of this line in Tijeras canyon, including about 100,000 cu. yds. of rock. W. S. Hopewell, Grant Block, Albuquerque, N. Mex., is Gen. Mgr.

ALEXANDRIA, BAYOU MACON & GREENVILLE. —We are informed that the first, third, fourth and fifth wards of West Carroll parish, La., voted a 5-mill tax, for ten years, on assessed and assessable property of those wards in aid of this company. Operations on this line have been carried on quietly for a year perfecting arrangements to build. It is the intention of the company to begin actual construction in the near future. J. D. Garrison, Delhi, La., is Ch. Engr. S. H. Cordill is Pres.

APALACHICOLA NORTHERN.—J. H. TRUMP, of Valdosta, Ga., is reported to have been awarded contract for building this railway from Quincy, Fla., to Saint Josephs Bay, 100 miles. H. S. Jones is Ch. Engr., at Quincy, Fla. Surveys are being run. Baxter L. Brown, 157 Laclede Bldg., St. Louis, Mo., is Engr. representing the capitalists interested in the project. Charles B. Duffy, Quincy, is Pres.

ARIZONA.—A newspaper report from Prescott, Ariz., states that Cecil G. Fennell and others are interested in project to build a railroad from Huron, Ariz., to the Model mine and other mining properties. The McCabe Development Co. is in charge. The line will be eight miles long.

ARIZONA & CALIFORNIA RY.—We are informed that company may build a branch line, crossing Colorado River about three miles north of Parker, Colo., to connect with the Atchison, Topeka & Santa Fe Ry. near Daggett, Cal. The line is constructed from Wickenburg to Harrisburg, Ariz. Grading contract for first portion of the work was awarded to GRANT BROS. CONSTRUCTION CO., Los Angeles, Cal.

ATCHISON, TOPEKA & SANTA FE.—The Chicago "Record-Herald" states that "official announcement is made that the Santa Fe has decided to build a $10,000,000 cut-off to the Pacific coast with a view to getting rid of the mountain grades. Orders have been given for the purchase of all the material necessary, and work will be started within 30 days. The work will be pushed rapidly, and the new transcontinental low-grade line will be ready for opening within a year or 15 months. The western end of the cut-off will be at Belen, N. Mex., 27 miles south of Albuquerque, on the El Paso line, and the eastern end will be at Texico, 250 miles away, on the Pecos Valley lines of the Santa Fe. The new road will cross the Sierra Nevada mountains at Abo pass at an elevation of 6,491 ft., but at a maximum grade east-bound of 1¼%, and west-bound of .6 of 1%. The line will cross the Santa Fe Central near Willard and the El Paso and Northwestern at Llano, N. Mex."

A line from Ivanpah, Cal., to Goldfield, Nev., is said to be under consideration.

ATLANTIC & BIRMINGHAM.—We are informed that three locating parties are now running surveys for proposed line from Montezuma, Ga., to Birmingham, Ala., and from some point on this line to Atlanta, Ga. Distance from Montezuma to Birmingham is about 240 miles. Alex. Bonnyman, Oglethorpe, Ga., is Ch. Engr. Noted fully on March 30.

BALTIMORE & OHIO.—A line from Connellsville, Pa., to Wheeling, W. Va., will be built, probably this year, it is said.

This company, it is reported, is planning to make terminal improvements at Cleveland, O., costing approximately $1,000,000. Two new ore-loading machines will be installed at a cost of about $250,000; and 12 or more new tracks will be laid from a point near the Superior St. viaduct to the Lake Shore and the Cleveland & Pittsburg railway tracks. Part of the line will be elevated. W. B. Hanlon is District Engr., at Cleveland, O.

BALTIMORE & OHIO SOUTHWESTERN.—Reports from Cincinnati, O., state that this company will spend about $500,000 in improving its facilities in that city. A second track will be laid between Madeira and O'Bannon, Ky., ten miles. L. F. Boeh, Cincinnati, is Division Engr. M. W.

BANGOR & NORTHERN MAINE SHORT LINE.—Herbert M. Heath, of Augusta, Me.; Geo. W. Maxfield, of Bangor; William H. Taylor, John D. Higgins and John W. Stokes, of New York; and Edward C. Stokes, of Trenton, N. J., have incorporated this line. A railroad will be built from tidewater at Bangor to Millinocket, through Orono, Lagrange, Mattamiscontis and Medway; also a line from Mattwamkeag, Moluncus, Macwahoe, Reed and Glenwood plantations, Amity and Hodgdon, into Houlton; also a line to Presque Isle. Capital is $50,000.

BEAUMONT & SARATOGA TRANSPORTATION CO.—We are advised by J. F. Keith, an incorporator of this company, that surveys have been run for a railroad from Voth, Tex., via Saline, to Saratoga, 20 miles. W. C. Tyrrell, Beaumont, is Pres. J. H. Broom, Voth, Tex., is Ch. Engr. Capital is partly secured. Five miles of the line have been constructed; company does work by day labor. This is principally for use as a log and lumber road and is to be built as needed.

CANADIAN NORTHERN.—We are informed that preliminary surveys for an extension of the Ridgeville branch from Emerson to Woodridge or Sprague are now being made. Nothing definite has been decided regarding construction. M. H. McLeod, Ch. Engr., Winnipeg, Man.

Contract for 25-mile branch from Winnipeg, east, across Red River has been awarded, we are advised, to McDONALD-McMILLAN CO. It will be finished this year.

Grading has been finished on branch from Carberry to Brandon, Man., 25½ miles. Track will be laid this spring.

CHICAGO, MILWAUKEE & ST. PAUL.—Roswell Miller, Chn. of Board, New York, is quoted as saying that $600,000 will be spent this year in building an extension from Chamberlain, S. Dak., west, for about 70 miles. This company is rumored to be building the White River Valley Ry. to the Pacific coast. D. J. Whittemore, Chicago, is Ch. Engr.

CHICAGO & STATE LINE.—Incorporated in Illinois to build a railroad north from a connection with the Chicago & Northwestern near Lake Bluff, to the northern boundary of Illinois, section 1, township 46, range 11. The incorporators and first board of directors are: J. M. Whitman and J. B. Redfield, Chicago; W. A. Gard... M. Kirkman, Evanston; and H. R. McCulloug... Lake Forest, Ill. Capital stock, $10,000.

COLORADO, WYOMING & IDAHO.—The Co... oming & Idaho railroad, which has been pro... Denver and Fort Collins, Colo., to Lander, ... Idaho points, and which was to have been bu... amie, Wyoming, will follow the Poudre River ... Collins to Cameron Pass, and over into North P... From there it will extend to Pearl, Colo., E... and Saratoga, Wyo., and on to Lander and po... and west. George Alexander, Engr., of Bo... ported to have made survey.

COLUMBUS NORTHERN.—This company h... for a charter in Georgia to build a line from ... to West Point, 30 miles, or to Lagrange, 40 mi... said to be an extension of the Georgia, Florid... bama north of Columbus. Charles L. Davis, ... Springs, Ga., and O. C. Bullock, T. W. Bates ... Owlsley, of Columbus, are the incorporators.

COLUMBUS NORTHERN.—Charles L. Davis, ... Springs, Ga.; O. C. Bullock, T. W. Bates, E. P... L. F. Humber, T. E. Blanchard, S. B. Hatcher, ... Bussey, Rhodes Browne and Ralph O. Howard, ... bus, Ga., have applied for a charter for this ... It is proposed to build from Columbus, up Chatt... River to either West Point or La Grange, Ga., ... miles.

COTTON BELT & NORTHERN.—Officials are ... to have announced that $3,000,000 will be spent ... proving Texas division of the line, including steam ... grading, gravel ballasting and track work. L. O. ...son, Onalaska, Ark., is Supt.

DANVILLE & INDIANA HARBOR.—This company has been incorporated, with principal office at Chicago. Capital stock is $2,500. It is proposed to construct a line from Danville, Ill., to the state line between Indiana and Illinois, a distance of about 15 miles. Bertrand Walker, Robt. J. Cary, E. T. Glennon and others, all of Chicago, are incorporators.

DURHAM & SOUTHERN.—We are informed that W. R. BONSAL & CO., of Hamlet, N. C., have been awarded contract for building 20-mile railway from Durham to Apex, N. C. George E. Lemmon, Durham, N. C., is Ch. Engr.

ERIE.—It is announced that the company will spend $500,000 in Cleveland, O., improving the terminal facilities. Improvements are also considered at Chicago terminal, where new freight warehouses will be constructed and all freight sheds will be connected with street tunnel system. R. S. Parsons, Cleveland, is Engr. M. W.

FARMERS' GRAIN & SHIPPING CO.—Surveys have been made for the proposed extension from Starkweather to Rock Lake, N. Dak., 25 miles. Grading probably will begin in May or June. J. J. Lanin, Starkweather, N. Dak., is Supt.

GRAND TRUNK PACIFIC.—A dispatch from Victoria, B. C., states that the G. T. P. Ry. has acquired from the original owners about 17,000 acres of land, and is now incorporating as the Bulkley & Telkma Valley Coal Co. The directors are C. M. Hays, F. W. Morse, A. C. Vernon, F. S. Barnard, E. T. Russell, E. V. Bodwell and H. H. Hays. The capitalization is $1,000,000. The Grand Trunk Pacific has also acquired the charter of the Pacific, Northern & Omineca Railway Co., which was chartered by the Dominion and provincial governments in 1901, to construct a railway from Kitimaat to Hazelton, with branches to the Bulkley and Telkma coal fields. The company has a subsidy of $5,000 a mile, and it is reported that the Grand Trunk Pacific will build it as a branch line. Company has two years yet in which to complete construction.

The preliminary survey of the section from Levis to Edmunston, N. B., is now completed, and everything in readiness for the location work to be commenced shortly.

The terminal of the Lake Superior branch of the G. T. P. will be at Indian Mission, adjoining Fort William, Ont., it is announced officially. Docks will be built near this terminal along the Kaministiquia River.

GREAT NORTHERN.—L. W. Hill, Vice-Pres., St. Paul, Minn., has announced that the link connecting Sioux City and Omaha, Neb., would be built "in the immediate future." A. H. Hogeland, St. Paul, is Ch. Engr.

ILLINOIS.—City council of Chicago has ordered the following railway companies to raise their tracks in South Chicago: Pittsburg, Fort Wayne & Chicago; Pennsylvania; South Chicago & Southern railway; Lake Shore & Michigan Southern; Baltimore & Ohio; South Chicago Railroad Co.; Chicago & Western Indiana; Chicago, Rock Island & Pacific; Lake Shore & Eastern. Track elevation will cost $4,000,000. John O'Neill is city track elevation expert.

LOUISVILLE & NASHVILLE.—EDDINGTON, GRIFFITHS & CO., of Knoxville, Tenn., have contract for re-building line from Saxton to Corbin, Ky. There is to be about 12 or 15 miles of grading work. Sub-contracts may be let.

MALAD VALLEY.—Contract for grading has been let to UTAH CONSTRUCTION CO., of Ogden, Utah, we are informed. Location surveys completed. The line will be 32 miles long and will extend from Garland, Utah, to Malad City, Idaho, via Washakil. William Ashton, Salt Lake City, Utah, is Ch. Engr.

MARQUETTE & SOUTHEASTERN.—It is reported that contracts are to be let soon for an extension from Marquette to Bigbay, Mich., 25 miles. R. C. Young, Marquette, Mich., is Ch. Engr.

MICHIGAN.—Local reports state that P. N. Jacobsen will build a belt railway at Detroit, to be known, probably, as the Detroit Belt Line. Right-of-way and capital is said to be secured.

W. H. White & Co., of Boyne City, Mich., will build a railway across northern Michigan. James A. White, of Goundry St., North Tonawanda, N. Y., is reported interested.

MOUNT HOOD.—We are informed that total length of railway, as planned, is to be 35 miles. Line has been surveyed for eleven miles; eight miles of right-of-way is secured, also capital for construction. Contract for grading has been awarded to GEBERSCH & JOPLIN, of Portland, Ore., and work is begun. Joseph A. West, Hood River, Ore., is Ch. Engr. W. H. Eccles, Hood River, is Pres.

NEW YORK CENTRAL & HUDSON RIVER.—The Saxe bill, which provides for removal of this company's cars from Eleventh Ave. and construction of a subway from Spuyten Duyvil to St. John's Park, has passed the Senate at Albany, N. Y.

NORTHERN CENTRAL (PENNSYLVANIA).—The Baltimore (Md.) "Herald" states that the directors of the company have authorized the expenditure of about $1,500,000 during the present year, as follows: For additional tracks from New Cumberland to Fairview, Pa., including

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w line at Bridgeport, $389,000; extension of the fourth k from Wago to Falls yard, $289,000, and additional k in Fairview, $240,000; extension of third and fourth s from Mount Royal Junction to Mt. Vernon, on the more Division, $35,000; and other improvements to about $41,000. J. H. Nichol, Engr., Williamsport,

RTHERN MAINE SEAPORT.—Moses Burpee, Ch. ., Stockton, Me., advises us that contracts for build- this railway, which will be a branch of the Bangor & stoock Ry., have been let as follows: Grading and laying, A. E. TRITES, of Bangor; masonry and tres- J. B. MULLIN, of Bangor; PENNSYLVANIA STEEL Steelton, Pa., superstructure of bridges and rails; E. ASTLE, Houlton, Me., stations. Right-of-way near- ll secured. The line will be 65 miles long and will from Lagrange to Belfast via Alton, Bradford, Hud- Glenburn, Bangor, Hermon, Hampdon, Winterport, nkfort, Prospect, Stockton and Searsport, Me.

OREGON.—J. E. Simmons has made proposition to city Tillamook to construct a railway into that city from rest Grove or North Yamhill. F. R. Beals, George . Grayson and C. B. Hadley are a committee in charge.

PENNSYLVANIA LINES (West of Pittsburg).—The non, Pa., cut-off will be built this year. It will extend om Enon, Pa., on the Pittsburg, Fort Wayne & Chicago ne, to Redbank, about 35 miles. Thomas Rodd, Pitts- urg, is Ch. Engr.

PENNSYLVANIA (LINES WEST OF PITTSBURG).— ontracts will be awarded soon, it is reported, for work n the Pittsburg Division (Southwest system) for the con- truction of a third track between Burgettstown and Bul- ger, Pa., about three miles. The work will necessitate an amount of excavation and change of alinement of all the main tracks. Probable cost, $500,000. Several bad curves are to be eliminated.

PHILADELPHIA, BALTIMORE & WASHINGTON (PENNSYLVANIA).—The board of directors, at a recent meeting, authorized an expenditure of $10,000,000 during the present year for elevating tracks in Wilmington, new construction on the line into Washington, and at approaches to Terminal Station in Washington, and the completion of the bridge at Havre de Grace. Estimated cost of this work is $7,000,000. There will also be improvements along the road, and much new equipment.

PITSBURG, FORT WAYNE & CHICAGO (PENNSYLVANIA).—Contract has been awarded to the H. S. KERBAUGH CONSTRUCTION CO., of Philadelphia, for completing the track work of the Fort Wayne through Allegheny, from a point near Marion Ave. to Island Ave. Tracks are to be depressed and will pass beneath the crossings at North Ave., Pennsylvania Ave. and Washington St. The work will cost about $1,000,000.

PORT ARTHUR & HOUSTON SHORT LINE.—Frederick F. Shipp, Secy., Port Arthur, Tex., announces that this proposed line will be about 85 miles in length, extending from Port Arthur via La Belle, Winnie, Hamphill and Barbers Hill, to Houston, Tex. Surveys have been made and contracts for construction have been awarded to CHARLES S. CLEAVER, of Port Arthur. It is expected to begin grading at once. F. J. Hart, Missouri Trust Bldg., St. Louis, is Pres.; H. M. G. Falkenburg, Port Arthur, Tex., is Ch. Engr. This company recently was incorporated by F. J. Hart, J. F. Montgomery, F. F. Stupp, James P. Ward, all of St. Louis, Mo.; H. F. Best, M. R. Bees, E. L. Rothrock, F. S. Elfred, A. J. Vuylsteke and Peter Lamp, all of Port Arthur.

RALEIGH & CAPE FEAR.—An extension will be built from Lillington to Fayetteville, 30 miles. The exact route has not yet been decided. The contract for grading has been let to W. J. BRADSHAW. Contract for a steel bridge 500 ft. long, with trestle approaches, of from 1,000 to 1,500 ft., over the Cape Fear River at Lillington, has been let to the VIRGINIA BRIDGE & IRON CO., of Roanoke, Va.

ROCKFORD TERMINAL BELT LINE.—Company has been incorporated in Illinois to build a belt line at Rockford. Capital stock, $100,000. Incorporators: Blewett Lee, Sidney F. Andrews, Andrew P. Humburg, F. L. Delay and Charles E. Feirich, all of Chicago. Nine branch lines will be built to nearby cities.

SANTA FE, RATON & EASTERN.—This line has been surveyed from Raton, N. Mex., to coal fields, a distance of ten miles. Contracts have been let to the PHILLIPS CONSTRUCTION CO., of Denver, Colo. Grading is to begin at once. F. E. Jennison, New York, is Pres.; W. E. McClintock, Raton, N. Mex., is Ch. Engr. Noted on March 23.

SILVERTON NORTHERN.—We are informed that right-of-way is secured, and capital also, for building a branch, 1.6 miles long, from Howardsville to Green Mountain, Colo. Bids will be received May 1 for this work. Arthur Ridgway, Silverton, Colo., is Gen. Supt. Otto Mears, 42 Broadway, New York, is Pres.

SOUTHERN.—W. J. OLIVER & CO., of Knoxville, Tenn., have been awarded contract for Lookout Mountain tunnel, near Chattanooga, Tenn., on the extension from Stevenson, Ala., to Chattanooga. Noted on March 30. Cost is reported to be between $2,000,000 and $3,000,000. F. M. Edwards is Supt. of Tunnels, Washington, D. C.

TEXAS.—Arthur Yonge, Snyder, Tex., informs us that construction of a line of railway from some point on the Texas & Pacific Ry. to Snyder is under consideration. Steps have been taken "to interest either the Texas & Pacific Railway Co. or some one else in building this tap. As yet, however, nothing definite has materalized. This is a fine field for the enterprise and there is no doubt but what sooner or later it will be put through."

TEXAS & PACIFIC.—Contract for building branch line, 22 miles long, from Melville to Simonesport, La., paralleling the Atchafalaya River, has been awarded to the GRIGSBY CONSTRUCTION CO., of Longview, Tex. H. Hedberg, Melville, is Supt. Construction for Contractors. W. P. Mobberly, Melville, is Engr.-in-Charge for T. & P. Ry.

TEXAS SOUTHEASTERN.—We are advised that contract for grading 8.6 miles of railway has been let to CHARLES McSWEENEY. Company will build bridges, lay track, etc., on this section, which is to extend from Deboll, Tex., to Neches River. This will be extended from Neches River to Houston-Trinity line, five miles. There will be 1,500,000 cu. yds. of embankment. There will be needed 40,000 yellow pine and oak ties; rail joints, spikes, bolts, switches and tie plates. P. H. McCarthy is Ch. Engr., Lufkin, Tex.

WESTERN MARYLAND.—J. Q. Barlow, Ch. Engr., writes us that right-of-way is being purchased; surveys completed and money on hand for double-tracking the line between Arlington and Emory Grove, Md. No contract has been let for reduction of grades and improvement of line between Williamsport and Big Pool, Md. This section has been surveyed. Financial arrangements are made and right-of-way being bought. Mr. Barlow may be addressed at Cumberland, Md.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATHOL, MASS.—A corporation with $80,000 capital, to build a trackless trolley system from Athol to Barre, by the way of Petersham, North Dana and Dana Center, is being formed. John A. Carter, of Petersham, is chief promoter.

MODUS, CONN.—We are informed that Ransom & Hoadley, Engrs., 601 Butler Exchange, Providence, R. I., have been retained as engineers in charge of new street railway of the Modus & East Hampton Tramway Co., of Modus. Surveys have been started and work of construction will probably begin within six or eight weeks. Any parties having supplies in this line may correspond with Ransom & Hoadley.

BROOKLYN, N. Y.—The plans for changing tracks of Long Island Railroad and of Brighton Beach branch of Brooklyn Rapid Transit Co., have been approved by Department Public Works, and Brooklyn Grade Crossing Commission. Bids will soon be advertised for and contracts let for the work, which is to be commenced this spring. Cost about $7,000,000. Eugene Klapp is Engr. of Const., of B. R. T., 168 Montague St.

CHAUTAUQUA, N. Y.—The Chautauqua Traction Co. will shortly begin construction work on line from Mayville to Westfield over the Portage Road.

COHOCTON, N. Y.—Geo. H. Switzer, of Bath, N. Y., has been granted franchise by this town and village of Naples, to build a ten-mile electric railway from Atlanta to Woodville. The proposed road will connect Atlanta, North Cohocton and Naples with Woodville.

CORRY, PA.—The Northeast & Findlay Lake Street Car Co. has been incorporated at Albany, N. Y., with a capital of $130,000. J. H. Nichols, of Titusville, Pa., is the promoter.

WILLMINGTON, DEL.—We are informed that the Delaware Interurban Ry. Co. has taken over the business of Delaware Suburban Ry. Co., and Cherry Hill, Elkton & Chesapeake Electric Ry. Co. and will complete the work. All surveys completed and right of way obtained. A great deal of general material and equipment has yet to be bought. H. R. Fothergill is Secy., Wilmington. Previously noted.

ROANOKE, VA.—The Roanoke Street Railway & Electric Co. will build an extension to its railway in the southeastern section of city. J. W. Hancock is Gen. Mgr., Roanoke.

WHEELING, W. VA.—A charter has been issued to the Ohio and Marshall County Railroad, of Wheeling, for the purpose of building a railroad from Benwood through Wheeling to the western boundary line of Pennsylvania, in Marshall County. Capital, $230,000. Incorporators: A. J. Cochran, G. L. Hobbs, Jos. E. Barnes and others, all of Pittsburg, Pa.

RALEIGH, N. C.—John D. Twiggs, Jr., City Engineer, of Augusta, Ga., will take charge as chief engineer of the work of surveying and building electric railway line between Raleigh and Durham. The road will be 25 miles in length. Work on the survey will begin at once.

BRUNSWICK, GA.—E. F. Coney and others will construct an electric railway in this city.

TAMPA, FLA.—The Tampa Electric Co. will extend its electric lines in this city to West Tampa. H. Hampton is Ch. Engr.

ALEXANDRIA, LA.—T. G. Bush, of Mobile, Ala., and G. N. Horde, of New Orleans, contemplate constructing an electric street car line at this place. I. W. Sylvester or H. B. Chase can give information.

GALLATIN, TENN.—An electric railway will be built from this city to Cumberland River and Castalian Springs. The prime movers in the enterprise are: C. A. Whitesides, Wm. Hall, C. B. Brown and others.

SHELBYVILLE, TENN.—An electric railway will probably be built from Nashville to Huntsville, via Shelbyville. W. P. Cooper and W. L. Wilhoite are interested.

DANVILLE, KY.—An electric street railway will be constructed by the Danville Light, Power & Traction Co., recently organized. The company will also build an electric light plant. The railway will not be constructed until lighting plant in completed. Chas. E. Fox, of Danville, is Pres.

BLOOMDALE, O.—S. P. Douglas, of Toledo, Pres. Fostoria, Bloomdale & North Baltimore Traction Co., has applied for a franchise in Bloomdale. The company proposes to build from Fostoria to Deshler. It is claimed the road will be built this year.

SOUTH BEND, IND.—The contract for building extension for South Bend & Southern Michigan Railway from Niles to St. Joseph, Mich., 24 miles, has been let to GEO. TOWNSEND, of Indianapolis. A. J. Hammond is Engr., South Bend.

WARSAW, IND.—It is stated that Thos. F. Deegan, Pres. Traction Company of America, has succeeded in financing the proposed railway between Fort Wayne and Warsaw, and that the work of constructing line will begin soon.

LAFAYETTE, IND.—Wm. S. Baugh, of Lafayette, will be at the head of the Lafayette & Southwestern Traction Co., which proposes to build from this city into the Indiana coal fields. Capital stock will be $1,000,000, a considerable amount of which has already been subscribed by local capitalists.

CHALMERS, IND.—Albert Gosler, of Chalmers, and chief promoter of Chicago Air Line Traction Co., announces that rights of way are all secured through White, Carroll and Clinton Counties.

INDIANAPOLIS, IND.—The following franchises have been granted in Indiana the past week: Indiana Union Traction Co., Wm. C. Sampson, Secy., Anderson, to enter town of Milton; Dayton & Muncie Traction Co., J. E. Lowes, Pres., Dayton, O., to enter Muncie; and to the Evansville & Princeton Traction Co., Chas. Small, Ch. Engr., Ft. Branch, Ind., to enter Mount Vernon.

MARTINSVILLE, IND.—The Indianapolis & Martinsville Rapid Transit Co. will extend its line southwest from Martinsville to Bloomington this summer, according to Paul H. White, Supt. No contracts have yet been let, but it is understood the project has been financed.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

FORT WAYNE, IND.—Dr. Louis Duncan, 56 Pine St., New York, is Consult. Engr., for Fort Wayne Traction Co. The owners intend erecting a power house the coming year.

LANSING, MICH.—The organization of the Lansing & Jackson Interurban Co. has been perfected by M. W. Mills, Geo. G. Moore, W. A. Boland and others, for the purpose of building an electric line from Lansing to Jackson. It is expected that the line will be commenced at once.

LAWTON, MICH.—Surveys have been made for an electric road between Lawton and Paw Paw. It is understood that the Michigan Central is in back of the project.

EAST ST. LOUIS, ILL.—We are informed that the Ozark Mountain Electric Ry. Co. will be ready to let contracts about July 15 for construction of its line, about 229 miles. Harper Brown, Ch. Engr., East St. Louis.

OCONOMOWOC, WIS.—Common Council has granted the Milwaukee Light, Heat & Traction Co. a franchise to construct its electric railway lines over certain streets, and the road will be extended from Waukesha Beach to this city. John I. Beggs is Gen. Mgr., Milwaukee.

DAVENPORT, IA.—The Tri-City Ry. Co. will build an extension to Orphans' Home and Oakdale cemetery in Davenport during the present year. The extension will start from Farnham and Locust Sts. and will be about a mile in length. T. Gowling is Ch. Engr., Davenport.

OMAHA, NEB.—An engineering party, in charge of L. F. Wakefield, of Sioux City, Ia., have begun the survey of a line in Nebraska from Omaha to Homer.

SILOAM SPRINGS, ARK.—Mayor D. Zimmerman, Pres. Siloam Springs Electric Railroad, Power & Improvement Co., is reported to have bought material to build 30 miles of line immediately to neighboring towns and villages.

St. JOHN, N. B.—The St. John Electric Street Ry. Co. has been granted the right to run its lines along Princess, Wentworth, King and Pitt Sts. Thos. Trevan is Ch. Engr.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BRADLEY, ME.—Fred W. Ayer, of Bangor, is interested in project to build a power plant on Penobscot River at Bradley. Another site, at Ellsworth, on the Union River, is under consideration.

PROVIDENCE, R. I.—The Narragansett Electric Light Co. may make improvements to system on East Side this summer, at cost of about $200,000. Fred N. Bushnell is Ch. Engr.; Wm. C. Woodward is Ch. Electrician.

LIVONIA, N. Y.—We are informed that contract has been awarded for building light and power plant for the Livonia Light & Heat Co. Cost, $8,000. Frederick A. Fish, Rochester, N. Y., is Designing Engr. B. C. Black is in charge. F. A. Wickes is Pres.

BINGHAMTON, N. Y.—Bids are asked until May 8 for lighting city streets, with 374 or more electric arc lights, for one, two or three years. D. C. Herrick, Cy. Clk. (Advertised, Engineering News.)

HIGHLANDS, N. J.—Water-works and an electric light plant will be built. $25,000 of bonds will be issued.

ATLANTIC CITY, N. J.—The Atlantic City Suburban Electric Co. is incorporated with a capital of $100,000 to furnish heat, light and power. It will petition for a franchise in Pleasantville. Incorporators, are Louis E. Kuehal, Harry E. Woodman and John C. Reed. We are informed that nothing will be done until next fall.

PITTSBURG, PA.—Bids are asked until May 1 for improving a portion of property of Schenley Farms Co. in the 14th Ward. There will be needed 64,600 ft. of $1\frac{1}{4}$-in. block service gas pipe, 2-in. block pipe gas mains and 6-in. cast-iron gas mains. H. T. Douglas, Jr., is Ch. Engr., 4203 Fifth Ave.

BALTIMORE (MOUNT WASHINGTON STATION), MD. —The JOHN A. SHERIDAN Co. has been awarded the contract for the erection of power house at Mount Washington for the Mount Washington Electric Light and Power Co. The building will be one story high, 85 × 65 ft., brick, with complete concrete roof. The roof will be erected by the STEEL CONCRETE CONSTRUCTION CO., which will also build concrete beams to sustain a weight of six tons. Thomas C. Kennedy, 113 North Charles St., is Arch. Noted March 30.

RICHMOND, VA.—Contract for building heating plant and lighting and power plant for state buildings has been awarded to WIRT A. CHESTERMAN, of Richmond, at $9,400. Total cost will be $25,000.

FAYETTEVILLE, N. C.—An election will be held on May 1 to vote on issuance of $15,000 of bonds for improving municipal electric light plant. John S. Jones is Ch. Engr.

CALHOUN FALLS, S. C.—It is reported that F. R. Dravo, of the Dravo Contracting Co., Pittsburg, will begin development of water power at Cherokee Shoals on Savannah River about May 1. O. H. Sheffield is Engr.-in-Charge. Noted on March 30.

UNIONTOWN, ALA.—We are informed that the HARDIE-TYNES CO., of Birmingham, Ala., has been awarded contract for new equipment for electric light plant. S. T. Townsend, Supt. municipal electric light plant. Thomas Hudson is Cy. Clk.

NEW ALBANY, MISS.—J. E. O'BOURNES, of Memphis, Tenn., has contract at $18,375 for the construction of water-works and electric light plant for which bids were received April 6, as advertised in Engineering News.

LAWRENCEBURG, TENN.—F. M. Lincoln is reported interested in plan to construct an electric light plant.

MEMPHIS, TENN.—Legislature has passed bill providing for building of a municipal electric lighting plant to cost $1,000,000. The Merchants Power Co. will build a plant. This company was recently chartered, as noted previously.

CENTRAL CITY, KY.—B. F. Creech has purchased franchises for an electric light plant and street railway. The plant is to be built within eight months and the railway in 18 months. C. H. Blandford is Cy. Clk.

SPRINGFIELD, O.—The Springfield Gas and Electric Co. will expend about $30,000 for new gas receiver and a storage tank with a capacity of 250,000 cu. ft., it is stated.

DETROIT, MICH.—City is said to have been granted permission to issue $150,000 of bonds for lighting improvements. William F. Cullen is Ch. Engr.

BATTLE CREEK, MICH.—City has voted to own and maintain gas and electric plants. Plans will be prepared.

CHICAGO, ILL.—Bids are asked until 11 a. m., April 25, for erecting in Chicago Ave. pumping station one vertical, high-speed, self-contained engine and electric light generator. F. W. Blocki, Comr. Pub. Wks. Wm. L. O'Connell, Deputy Comr.

LAFAYETTE, IND.—Bids are asked by W. S. Haggan, Chn. Bd. Trustees, Soldiers Home, until May 2 for constructing a power house, brick stock, boilers, and extensions.

LOCKPORT, ILL.—Bids were received by S. D. Griffin, Clk., Sanitary District of Chicago, Security Bldg., Chicago, as advertised for in Engineering News, for building a concrete power-house, 160 x 386 ft., 100 ft. high. It is to contain nine turbine chambers, with bulkheads designed for a working head of 34 ft. of water; a generator room, 62 × 359 ft.; and offices, 20 × 62 ft., Hayes Bros., of Janesville, Wis., were lowest bidders at $293,492; Falkenau Construction Co., Chicago, $293,673; F. J. Cullen, Chicago, $310,951. Ten bids were received, we are informed.

CHICAGO, ILL.—Mandel Bros. have let contracts for power plant to be installed in the sub-basement of their store building at 111-115 Wabash Ave. This is to consist of engines and generators comprising five complete units, with an aggregate capacity of 1,500-KW., divided as follows: three of 400-KW. each, one of 200-KW. and one of 100. There will be three vertical, cross-compound, non-condensing engines, one horizontal engine of similar type and one horizontal single engine, all direct connected to Bullock generators. The engines will be built by the ALLIS-CHALMERS CO. at the West Allis, Milwaukee, works, the generators are to be furnished by company's electrical department, the BULLOCK ELECTRIC MFG. CO., of Cincinnati. Holabird & Roche, Monadnock Block, are Archs.

DECATUR, ILL.—We are informed that the Consumers' Gas & Electric Co., recently chartered, has an application pending before City Council for a 20-year franchise for gas, electric light and steam heating plant. Estimated cost of combined plant is $250,000. W. L. Shellabarger is Pres. James J. Finn is Secy. and Treas.

SAINT CROIX FALLS, WIS.—We are informed that contracts for constructing plant and transmission line for the St. Croix Falls Wisconsin Improvement Co., and St. Croix Falls Minnesota Improvement Co., at St. Croix Falls, Wis., on St. Croix River, have been awarded to the COLUMBIA IMPROVEMENT CO., of Boston, Mass. Power will be supplied to Minneapolis. Stone & Webster, 93 Federal St., Boston, Mass., are Consult. Electrical Engrs.

FERGUS FALLS, MINN.—We are informed that Water and Light Commissioners have plans for replacing present electric power dam with a concrete dam with ten feet more head, in 1906. J. F. Fanning, 330 Hennepin Ave., Minneapolis, Minn., is Consult. Engr. J. W. Peterson is Supt. Municipal Electric Light Plant.

ST. PAUL, MINN.—The St. Paul Gas Co. plans to lay about ten miles of new mains this year. Company is building steel gas tank at East Fifth and Pine Sts. Paul Doty is Vice-Pres.

MOORHEAD, MINN.—Bids are asked until May 1 for installing a 300-KW. generating unit. Edward P. Burch, Guaranty Buldg., Minneapolis, Minn., is Consult. Engr. H. E. Roberts, Cy. Clk.

GRAND ISLAND, NEB.—Bonds will be voted to build a municipal electric light plant at cost not exceeding $35,000. C. A. Baldwin is Cy. Engr.

DODGE, NEB.—Bonds will be issued for construction of an electric light plant and water-works. Estimated cost, $10,000.

GRAND FORKS, N. DAK.—City will issue $30,000 for erection of a municipal electric light plant.

GLASGOW, MO.—The Glasgow Electric Light & Power Co. has been incorporated by W. R. Dewitt, of Glasgow, and George H. Milburn, of St. Louis, Mo. Capital is $7,000.

TISHOMINGO, IND. T.—C. N. Wells, of Tishomingo, and other interested parties have engaged H. von Schon, Consulting Engr., of Detroit, Mich., to examine and report upon the water power development of the Blue River, one of the important tributaries of the Red River. If Mr. von Schon's report is favorable, a company will be organized at once, headed by C. N. Wells.

TACOMA, WASH.—A. McL. Hawkes has offered to build municipal electric power plant for $600,000.

KELSO, WASH.—The town has granted a franchise to Kelso Water & Light Co. (the Metcalf Shingle Co., of Tacoma), for electric lighting privileges.

SALEM, ORE.—H. D. Wagnon, of Portland, has announced that he expects to establish an electric light and power plant in this city. Project will be financed by T. B. Wilcox and other capitalists of Portland. It will cost $25,000.

OREGON CITY, ORE.—The Portland Central Electric Co. has filed petition in the county court asking for franchise over county roads between Oregon City and Aurora for transmission of electric light, power and energy. Similar franchise will be asked over the Marion county roads between Aurora and Salem. Additional generating plant will be erected at Willamette Falls. Company will supply Willamette valley as far as Salem with light and power. Construction will begin during low water period this summer. 10,500-HP. will be generated. Charles H. Canfield, Oregon City, is Secy. F. G. Sykes, Portland, is Supt. Local Superintendent is Chas. Miller.

TRUCKEE, CAL.—The Truckee River General Electric Co. will build an electric light plant here this spring. A. M. Hunt is Ch. Engr.

LEWISTON, IDAHO.—Hon. Francis Jenkins and associates of Moscow, Idaho, are interested in plan to establish a power plant at Elk Creek Falls, where minimum capacity is about 3,500-HP.

WEISER, IDAHO.—John R. Piercy, Pitts Ellis, W. H. Adams, T. C. Galloway, and J. H. Morrison, have incorporated the Weiser Electric Power Co. with capital of $50,000, for purpose of constructing a power plant on the Weiser River. Plant will cost $32,000. It is the intention of company to float bonds, and complete plant immediately, if possible.

PARRY SOUND, ONT.—Bonds for $15,000 may be issued for improving electric light plant. G. Groves is Supt. and Ch. Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SPRINGFIELD, MASS.—Bids were received by County Commissioners April 8, as advertised in Engineering News, for construction of bridge over Connecticut River, between Chicopee and West Springfield, as follows: King Bridge Co., Cleveland, O., $48,700; Berlin (Conn.) Const. Co., $59,579; New England Structural Co., Everett, Mass., $48,495; Groton (N. Y.) Bridge Co., $50,000; Owego (N. Y.) Bridge Co., $49,500; Canton (O.) Bridge Co., $55,000; New Jersey Bridge Co., New York, $44,777; Boston (Mass.) Bridge Works, $47,593; Levering & Garrigues, New York, $53,000; Massillon (O.) Bridge Co., $52,000; Eastern Steel Co., Boston, $48,390; Converse & Co., $49,900, R. F. HAWKINS, Springfield, $43,749 (awarded contract); L. F. Shoemaker & Co., 52,494; Springfield (Mass.) Const. Co., $49,0[illegible] Pennsylvania Steel Co., Steelton, Pa., $58,000; Belmont Iron Works, Philadelphia, Pa., $45,900; United Const. Co., Albany, N. Y., $47,379; Penn Bridge Co., Beaver Falls, Pa., $54,300; American Structural Steel Co., $44,800. Robt. O. Morris, County Clk.

BOSTON, MASS.—It is stated that a bridge will probably be constructed over Charles River, at Boylston St., by Metropolitan Park Commission, 14 Beacon St. John R. Rablin is Engr.

TIVERTON, R. I.—AUGUSTUS SMITH, of New York, has been awarded contract for construction of new Tiverton bridge across Seaconnet River. It will be a lift bridge of two-leaf Bascule pattern. Six contractors submitted prices, ranging from $52,000 to $78,000. The contract for approaches has been awarded to Beattie & Wilcox, of Fall River, Mass., for about $100,000.

NEW HAVEN, CONN.—Following bids were received April 10, by C. W. Kelly, Cy. Engr., for constructing bridge and approaches on Kimberly Ave.; awarding of contract was temporarily tabled, awaiting approval of plans by U. S. War Department: Russell Contracting Co., 156 Fifth Ave., New York, $19,890; F. T. Ley & Co., Springfield, Mass., $26,886; Charles W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn., $25,285.

COSCOB, CONN.—The New York, New Haven & Hartford R. R. Co. has started plans for a new bridge across Housatonic River near Coscob. The bridge is to be Scherzer lift operated by a small power plant. W. H. Moore is Bridge Engr., New Haven.

NEW YORK, N. Y.—Bids were received April 11, by Geo. E. Best, Bridge Comr., for constructing University Heights bridge and approaches, across Harlem River as follows: R. H. Hood, 220 Broadway, $809,828; Williams Engineering Const. Co., 21 Park Row, $609,696; United Engineering Construction Co., 21 Park Row, $638,566; Snare & Triest Co., 39 Cortlandt St., $595,897; J. C. Rodgers, 1919 Amsterdam Ave., $633,518; Naughton & Co., 258 Broadway, $641,889; Jos. Gallo, 127 Mulberry St., $671,002. Itemized bids are given under Contract Prices.

WELLSVILLE, N. Y.—See under Street and Roads.

HOOSICK FALLS, N. Y.—Michael Fitzgerald was lowest bidder, at $5,100, for constructing a new iron bridge over Walloomsac River. Wm. P. Haynes is Town Clk.

FRANKFORT, N. Y.—JOHN C. DEWHURST, of Utica, has been awarded a contract by the Utica & Mohawk Valley Ry. Co. to build abutments and foundation of new bridge at Frankfort. The UNITED CONSTRUCTION CO., of Albany, has contract for steel work.

TRENTON, N. J.—The Board of Freeholders has voted to build two new steel bridges as soon as possible. Frank J. Eppele is County Engr.

SCRANTON, PA.—Bids were opened April 15 by E. A. Jones, County Controller, for constructing five bridges in county. The following were the successful bidders: Bridge No. (1), WEISS & MILLARD, Moscow, $340; (2) and (4), McLOUGHLIN & O'BRIEN, Olyphant, $750 and $925 respectively; (3) and (5), GEO. H. NICHOLS, Clarks Summit, $430 and $525.

ALLENTOWN, PA.—Bids are asked by County Commissioners until May 1 painting of several bridges throughout the county. L. S. Slinner, Comr.

WASHINGTON, D. C.—Specifications are on file in office of Engineering News, 220 Broadway, New York, for construction of steel bridge across Eastern Branch of the Potomac. Bids to be opened May 1 as advertised in Engineering News.

RICHMOND, VA.—The Concrete-Steel Engineering Co., 21 Park Row, New York, has prepared preliminary plans for a concrete steel bridge, 1,400 ft. long, 17 spans, to be built in Richmond. Est. cost, $100,000. W. E. Cutshaw is Cy. Engr.

ATLANTA, GA.—The contract for completion of Edgewood Ave. bridge has been awarded to SOUTHERN FERRO CONCRETE CO., for $27,155. C. J. Bowen is Chn. of Bridge Com.

COLUMBUS, GA.—County Commissioners awarded contract to SOUTHERN BRIDGE CO., of Birmingham, Ala., for building two steel bridges across Randall Creek, at a total cost of $10,000.

DAYTON, O.—The contract for erection of iron work of new Summit St. bridge was awarded to J. C. MORRISON, of Dayton, for $4,600.

DAYTON, O.—The People's Ry. Co. awarded contract for construction of a temporary bridge at Washington St. to HOGLERT & KLINE. Cost about $10,000.

CLEVELAND, O.—Bids are asked by County Commissioners until May 10 for construction of stone bridges. Julius C. Dorn, Clk.

COLUMBUS, O.—Bids are asked by County Commissioners until May 4 for constructing substructure, superstructure and approaches of Lockbourne Canal bridge; substructure of Black Lick Creek bridge; substructure of Schott bridge; approaches of Higgins bridge. L. E. Jones, County Audr.

MEDINA, O.—Bids are asked by County Commissioners until May 1 for constructing a steel bridge with masonry substructure, over Rocky River, to consist of one span, 120 ft. long, with a 16-ft. roadway. W. H. Hobart, County Audr.

TOLEDO, O.—F. I. Consaul, Ch. Engr. Bd. Pub. Serv., informs us that the repairs to Cherry St. bridge have been indefinitely postponed.

NORWALG, O.—Bids will be received until May 2 for erection of a bridge over South West St. T. P. Kellogg, Clk.

CLEVELAND, O.—We are informed that the Board of Public Service awarded to VAN DORN IRON WORKS CO., of Cleveland, the contract for constructing superstructure of bridge at Detroit St., for $17,500.

BRYAN, O.—Bids are asked by Geo. E. Morris, County Audr., until May 4 for construction of sub and superstructure of six bridges and substructure of three bridges.

NORWALK, O.—Bids will soon be received on painting of High lever bridge.

GALLIPOLIS, O.—Bids will be received for construction of several 60 ft. steel bridges throughout this (Gallia) county. Address County Engineer Miller.

INDIANAPOLIS, IND.—County Commissioners awarded contract for placing buckle plates on West Washington St. bridge over White River to the NE[illegible] CASTLE BRIDGE CO., of Indianapolis, for $3,300.

CANNELTON, IND.—It is stated that Co[illegible] Commissioners will receive proposals next month f[illegible] [illegible] and excavation for a bridge. Albert B. F[illegible] County Audr.

TIPTON, IND.—Bids are asked by Cou[illegible] Commissioners until May 1 for construction of sto[illegible] concrete arches to be constructed in Wildcat Town[illegible] T. W. Longfellow, County Audr.

LAFAYETTE, IND.—It is stated that Cou[illegible] Commissioners will soon advertise for bids for er[illegible] a steel bridge over north fork of Wildcat River. C[illegible] Council last fall made an appropriation of $[illegible] for the bridge.

MT. CARROLL, ILL.—The city voted Apr[illegible] to issue about $7,000 bonds for construction of a w[illegible] bridge over Carroll Creek. Address City Clerk.

ELGIN, ILL.—Bids are asked by Wm. F[illegible] Cy. Clk., until April 25 for construction of a pile b[illegible] across Fox River at Kimball St.

ROCKFORD, ILL.—According to local pr[illegible] reports City Engineer Main is arranging for the co[illegible] of a new wagon bridge over Keith Creek and 11[illegible]

PEORIA, ILL.—Bids are asked by R. W. Sch[illegible] Comr. Pub. Wks., until April 24, 12 m., for cons[illegible] of bridge and approaches across Illinois River at [illegible] St. W. L. Stebbins, Consult. Engr., 1110 Monad[illegible] Bldg., Chicago.

DES MOINES, IA.—The Chicago Great West[illegible] R. R. Co. has appropriated about $300,000 for cons[illegible] of concrete bridges between Des Moines and K[illegible] City this summer. O. P. Chamberlain is Div. E[illegible] Des Moines.

CEDAR RAPIDS, IA.—We are informed th[illegible] BARTLETT & KLING, contractors, of this city, have [illegible] a contract for reinforced concrete bridge, three spans, for Cedar Rapids & Marion Ry. Co. Bartlett & Kli[illegible] are in the market for plans for this bridge as the same have not yet been adopted.

NELIGH, NEB.—Bids are asked by Board of Supervisors until April 28, 2 p. m., for construction of two steel bridges. M. W. Murphy, Chn. Bridge Com.

SPRINGFIELD, MO.—County Commissioners will receive bids about June 1 for construction of three steel bridges of about 80 ft. span each, across Pomme[illegible] River. Cost, $8,000. Geo. W. Fuller, County Surv.

KANSAS CITY, MO.—Walton H. Holmes and associates will organize a $3,000,000 company to build and operate a toll viaduct in this city.

CARROLLTON, MO.—Bids are asked by W. J. Leathem, Bridge Comr., until May 2 for constructing three steel bridges.

HALLETSVILLE, TEX.—Bids will be received by County Commissioners until May 8 for painting all bridges in county, about 56 in number.

MARIETTA, IND. T.—The city will build a new bridge over Hickory Creek at a cost of $7,000. The Mayor can inform.

COLORADO SPRINGS, COLO.—The appropriation for Unitale St. bridge, we are informed, has failed to pass. Work will probably not be done this year. E. W. Case, Cy. Engr.

PENDLETON, ORE.—Plans by C. E. Troutman, Arch., Pendleton, for two bridges to be erected by county have been selected by County Commissioners. One bridge will be 60 ft. span, no approach, and the other a 70-ft. span with 70-ft. approach.

BAMBERG, ONT.—Bids are asked by Fred Walters, Comr., until May 1 for building two cement abutments for steel superstructure, about 300 cu. yds.

RAT PORTAGE, ONT.—Bids are asked for construction of steel bridge across tracks of Canadian Pacific Railway, on Julius St. D. H. Currie, Town Clk.

MONTREAL, QUE.—It was decided at a joint meeting of City Council and Harbor Commissioners to construct a bridge at ferry landing on Victoria pier. Estimates will be prepared by Harbor Engineer Kennedy. Cost $15,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MARBLEHEAD, MASS.—Lowest bid received by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, heating apparatus, electric wiring and conduits of the post-office, at Marblehead, was submitted by Richardson & Burgess, of Washington, D. C., at $42,688.

SPRINGFIELD, MASS.—Andrew Carnegie has given $150,000 to city for new library. Nathan D. Bill is Pres. City Library Assn. H. C. Wellman, Librarian.

WELLESLEY, MASS.—A new high school building will be built by town. Estimated cost, $100,000.

WORCESTER, MASS.—A new union passenger station will be erected by Boston & Albany Ry. and other lines at cost of about $350,000.

PROVIDENCE, R. I.—Bids are asked until April 28 for building a 12-room grammar school on lot bounded by Webster Ave., Clarence St. and Sterling Ave. Martin & Hall, Union Trust Co. Bldg., are Archs. Jeremiah H. Hall, Chn. Com.

STAMFORD, CONN.—Bids are asked until April 24 for erecting a town hall. N. C. Mellen and E. A. Josslyn, of 27 West 30th St. and 45 East 42d St. New York, respectively, are Archs. Building will be semi-fireproof, steam heated; concrete floors. $150,000 is available.

BROOKLYN, N. Y.—A. D. Everett Waid, Arch., 156 Fifth Ave., Boro. of Manhattan, has revised plans ready for bids on three fireproof hospital buildings, to be added to Long Island College Hospital, Henry and Pacific Sts., Brooklyn. A donation of $1,000,000 was made for this work by J. Rogers Maxwell, Pres. Atlas Portland Cement Co., 30 Broad St., Manhattan.

GENEVA, N. Y.—Bids are asked until May 25 for construction, complete, of post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

ITHACA, N. Y.—Bids were received on April 10 for constructing new State College of Agriculture buildings at Cornell University. Maurice Kantrowitz, of Albany, was lowest bidder, at $177,700. We are informed that this work, for which bids were advertised in Engineering News, will consist of four buildings, the main building and Hall of Horticulture, four stories high; the Hall of Agronomy and Agricultural Machinery, the Dairy Building, and the Stock Judging Pavilion, 60 × 90 ft., inclosed in a rectangular area of about four acres. Buildings will be constructed of brick. E. L. Williams is Treas. University.

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LOCKPORT, N. Y.—The Farmers' & Mechanics' Bank will erect a $100,000 building on site of Lincoln block.

NEW YORK, N. Y.—Bids are asked until May 1 for stairways, alterations, etc., for several schools in Boroughs of Brooklyn and Manhattan. C. B. J. Snyder, School Bldgs.

... are asked until April 27, 2 p. m., for repairs to ... armories of the N. G., N. Y., in Boroughs of Manhattan and Brooklyn. George B. McClellan, Mayor. ...on & Kunst, 164 Fifth Ave., are Archs.

...s have been filed for remodeling and partially reconstruction of the carhouses and shops of the Metropolitan system, owned by the New York City Railway Co., ...ond Ave., from 96th to 97th Sts., in order to make ... fireproof structure. It is a 3-story building, 201 × ... The present wooden floors, posts and girders are removed and new floors laid of reinforced concrete, columns built on concrete foundations and a new roof roof of iron and terra cotta blocks constructed. ... windows with pivoted sashes will be installed and a wall built at the eastern end to separate the house ... the present adjoining stable. The cost of the proposed improvements is estimated at $100,000.

...mel Realty & Construction Co., 162d St. and Broadway, will build five 5-story flats, 40 × 85 each, on the ... side of Claremont Ave. north of 125th St. The cost ... figured at $200,000. Neville & Bagge are Archs.

... R. WHITNEY, JR., & CO., 135 Broadway, have the general contract for 8-story stone loft building, 197 × 75 ... to be erected on the west side of 11th Ave. between ... and 37th Sts. Estimated cost, $250,000. David Williams, 232 William St., is the owner. Radcliffe & Kelley, ... West 29th St., are Archs.

NEW YORK, N. Y.—The contract for the structural ironwork for the new Altman department store on Fifth Ave., and 35th St., has been awarded to POST & McCORD, 44 East 23d St., for whom the AMERICAN BRIDGE CO. will do the fabricating. MARC EIDLITZ & SON, 489 Fifth Ave., are the general contractors. The site is to be cleared after May 1.

McKim, Mead & White, 160 Fifth Ave., have plans ready for bids on the club house for the Colonial Club, 128 East 36th St. Brick, stone, terra cotta and concrete, steel skeleton, fireproof construction, slag roof, electric wiring. Est. cost, $150,000.

NEW YORK, N. Y.—Green & Richman, 37 Maiden Lane, are reported to be taking bids on subcontracts, for new 9-story loft and storage building, 56 × 82 ft., which they will erect at 13-15 West 20th St. Cost, $175,000. L. A. Goldstone, 110 West 34th St., is Arch.

H. Van Buren Macgonigle, Arch., 7 West 38th St., has filed with the Bureau of Buildings the plans for the proposed club house for the Ancient Order of Hibernians, to be erected at Fifth Ave. and 116th St. It is to be a 5-story fireproof edifice, 100 × 88 ft. The building will have a facade of either granite or limestone, trimmed with decorated terra cotta. There are to be balconies at the third and fourth stories, and the roof cornice will be adorned with a series of pinnacled piers supporting staves. A large roof garden will be a feature. Est. cost, $200,000. Patrick J. McNulty, 614 Lexington Ave., is Pres.

NEW YORK, N. Y.—G. Robinson & Son, Archs., 39 Hancock Pl., have plans ready for bids for a 9-story hotel for the Plymouth Realty Co., 1370 Broadway. To be of brick, granite and concrete; structural steel and iron, fireproof construction. Cost, about $125,000.

NEW YORK, N. Y.—Plans have been filed by McKim, Mead & White, Archs., 160 Fifth Ave., for a 6-story and basement brick dwelling house, 50 × 91 ft., at 666-668 Fifth Ave., for Mrs. Wm. K. Vanderbilt, Jr. Cost, $200,000.

Plans have been filed by Bernstein & Bernstein, 72 Trinity Pl., for six 5-story brick flats, 41 × 87 ft., on 148th St., for Shapiro & Sammels, 17 East 107th st. Cost, $270,000.

By C. A. Reed, Arch., 314 Madison Ave., for a 3-story brick building, 200 × 190 ft., at Madison Ave., Vanderbilt Ave., 43d and 44th Sts., for N. Y. Central & Hudson River Ry. Co. Cost, $200,000.

Neville & Bagge, Archs., 215 West 125th St., for a 9-story apartment house, 76 × 100 ft., at Park Ave. and 83d St., for Hauben Realty Co. Cost, $250,000.

William G. Pigueron, 32 Union Sq., has filed plans for an 18-story fireproof building, to be erected at 24-26 Stone street., and at 59 and 61 Pearl St. Estimated cost is $600,000, we are informed.

McKim, Mead & White, Archs., 160 Fifth Ave., have been commissioned, it is reported, to prepare plans for a new wing for the Metropolitan Museum of Art, on Fifth Ave., for which $1,250,000 has been appropriated by legislature.

ROCHESTER, N. Y.—Bids are asked until April 26 for plumbing and electric light, wiring for store house and bakery and extension to laundry; also for installation of new electric conduit, lighting and telephone cables and moving present pole line at Rochester State Hospital. T. E. McGarr, Secy. State Comn. in Lunacy, Albany, N. Y. (Advertised, Engineering News.)

SYRACUSE, N. Y.—The North Side High School bill has been introduced in legislature. It provides for an appropriation of $200,000 for site and building. James W. Pennock, Conrad Breitschwerth, William J. McClusky and others comprise commission in charge of project.

SYRACUSE, N. Y.—Chancellor James R. Day has announced that Andrew Carnegie had presented $150,000 to Syracuse University for the erection of a new library building.

UTICA, N. Y.—Governor Francis W. Higgins has signed the bill providing for appropriation of $1,000,000 for a new court-house in this city. Plans will be prepared. J. F. Olney and A. R. Kessinger, Rome, N. Y., are members of the building commission.

SOUTH ORANGE, N. J.—The MILLER-COLLINS CO., formed by S. Fisher Miller, Contracting Engr., 1133 Broadway, New York, and D. C. Newman Collins, 29 Broadway, New York, Consulting Engr., has been awarded the general contract for building garage and experimental station for Spencer Miller, Esq., at South Orange. To be of reinforced concrete construction. Robert S. Stephens is Arch.

NEWARK, N. J.—Bids are asked by Board of Education until April 21, 8 p. m., for various repairs to public school buildings. Separate proposals are to be received for: (1) carpenter and metal work; (2) painting work; (3) plumbing and metal work; (4) iron fence work; (5) electrical work; (6) artificial stone and asphalt paving; (7) flagging; (8) items, embodying mason, iron, carpenter, painting, plumbing and steamfitting work.

MONTCLAIR, N. J.—State Educational Board will petition legislature to appropriate $275,000 for erection of normal school here.

JERSEY CITY, N. J.—The Alexander bill authorizing the Hudson County Board of Freeholders to issue $250,000 bonds for the construction of a new almshouse at Snake Hill, has passed the Senate and now awaits the Governor's signature to become a law.

JERSEY CITY, N. J.—The Knights of Columbus lodges in this city may erect a $100,000 fraternal building.

TRENTON, N. J.—Appropriation of $250,000 has been approved for new wing to State prison; also $206,000 appropriation for new building, fire-escapes, etc., at Trenton Asylum for Insane.

LIMA, PA.—Bids are asked by Frank E. Sharpless, Secy. Bd. of Directors of the Poor, until noon, April 27, for the erection and completion of the buildings for the Hospital for the Insane. Plans, etc., at office of Henry L. Reinhold, Jr., Arch., 1004 Chestnut St., Philadelphia.

PHILADELPHIA, PA.—Bids will be received for scarlet fever and diphtheria hospitals on the Macalester farm site. Philip H. Johnson, Fidelity Bldg., is Arch. Est. cost, $900,000.

WILKESBARRE, PA.—W. H. SHEPHERD & SONS were given contract, at $139,975, for addition of two wings to hospital for insane at Retreat, Pa.

ALTOONA, PA.—Contract for new 5-story Central Trust Co. Building on Eleventh Ave. was awarded to P. W. FINN, of Altoona, at $83,595.

WASHINGTON, D. C.—Wood, Donn & Deming, 808 17th St., N. W., have prepared plans for office building for the International Banking Corporation, at F and 14th Sts., N. W. Eight stories, 29 × 86 ft. Cost, about $100,000.

WASHINGTON BARRACKS, D. C.—Bids are asked until May 13 for ornamental terra cotta for Army War College. Capt John Stephen Sewell, U. S. Engr. (Advertised, Engineering News.)

WASHINGTON, D. C.—Contract for timbrel arch construction for Army War College, as advertised in Engineering News, has been awarded to R. GUASTAVINO CO., 49 East 19th St., New York, at $34,385. Capt. John S. Sewell, Engr.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. U. S. Capitol Building and Grounds, until May 3 for cast-iron pipe and fittings for underground drainage for office building for House of Representatives. Bids will be received also on May 17 for structural steel work connected with construction of two floors of said office building. (Advertised, Engineering News.)

BALTIMORE, MD.—Bids are asked until April 26, 11 a. m., by Municipal Board of Awards, City Hall, for the erection of school building to be located at Lakewood Ave. and Oliver St. Structure is to be three stories high with basement, 80 × 156 ft. Henry F. Hoops, Cy. Register. An alternate bid will be received on fireproof construction.

COLUMBIA, S. C.—We are informed that extensive improvements are contemplated on the state capitol, but the work for which appropriations have been made this year is as follows: A new roof, reinforcement of certain structural steel work; repairs or reconstruction of the ceilings in the Senate Chamber; house of representatives and library; new ceiling in the main lobby; certain interior painting and decoration; metal filing cases for the office of the Secretary of State, Comptroller-General and Historical Commission. Charles C. Wilson, Columbia, is Arch.

DECATUR, ALA.—It is reported that the Railroad Commission has ordered the Southern Ry. Co. to build a new depot here. W. H. Wells is Engr. of Construction, Washington, D. C.

MOBILE, ALA.—The Southern Ry. Co. has been ordered by Alabama Railroad Commission to build a $250,000 union passenger station here.

NEW ORLEANS, LA.—The Young Men's Gymnastic Club may erect a 6-sty fireproof building. Cost $125,000. John J. Frawley is Pres.

FAIRMOUNT, O.—Bids are asked until May 5 for building 4-room brick school at Cleveland Heights. Wm. G. Phare, Clk. Bd. Education, American Trust Bldg., Cleveland.

CINCINNATI, O.—Bids have been received by Robert H. West, Chn. Bldg. Com., Bd. Trustees, for erecting Carnegie branch library at Vine and Daniels Sts. William A. Hopkins, Clk.

CINCINNATI, O.—Bids are asked until 10 a. m., April 20 for erecting brick engine house on Court St. Harry Hake, Arch., Union Trust Bldg.

INDIANAPOLIS, IND.—Bids are asked by the board of school commissioners, at office of John E. Cleland, Bus. Dir., until 8 p. m., April 25, for the erection and installation, complete, of a heating and ventilating plant in the new school building, to be erected on Rural St. Clarence Martindale, Arch., 316 Indiana Trust Bldg.

VALPARAISO, IND.—We are informed that bids are asked until May 6 for construction of county asylum building. Stephen P. Corboy, Audr., Porter County.

OWOSSO, MICH.—Bids are asked until May 23 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for construction, complete, of post-office.

FT. SHERIDAN, ILL.—Bids are asked by Capt. William Weigel, Q. M., until noon, May 11, for cleaning, oiling and pointing all outside walls of 15 new brick buildings.

CHICAGO, ILL.—R. E. Schmidt, Arch., 172 Washington St., is taking figures on a hospital building, to be erected at 29th St. and Groveland Ave., for the Michael Reese Hospital. To be six stories high built of brick and stone. Est. cost, $500,000.

FOND DU LAC, WIS.—L. A. Lange has awarded contract to J. E. JONES and JOHN O'BRIEN, of Milwaukee, for a theater, it is reported.

MADISON, WIS.—Bids are asked by the board of education until noon, May 2, for the general construction and mechanical equipment of the new high school building. O. S. Norsman, Clk. Bd.

LANCASTER, WIS.—Bids are asked by W. J. Brennan, Chn. Bldg. Com., until 1 p. m., April 26, for the erection and completion of a hospital building, to be erected on the Grant county farm, situated 2½ miles from Lancaster. Separate bids will be received for plumbing and heating. H. Kleinhammer, Arch., Platteville, Wis.; H. Grimm is Secy.

BARABOO, WIS.—T. C. McCARTHY & CO., of Madison, Wis., have general contract for Sauk county court-house. Cost, about $90,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CEDAR RAPIDS, IA.—BARTLETT & KLING, Cedar Rapids, have been awarded contract for interior finish of Third Avenue Hotel.

SEWARD, NEB.—Bids are asked until noon, April 25, by J. M. Calder, County Clk., for construction of court-house.

JEFFERSON CITY, MO.—Plans and specifications will be received by the board of commissioners until 10 a. m., May 1, for a supreme court building, to cost approximately $180,000. The building will be located on a lot substantially 200 ft. square; will have three court rooms, a library, chambers for the judges, offices for the attorney-general, the reporter, the clerk, the marshal and the janitor. Three prizes will be paid for the plans; for the first best, $1,000; for the second best, $500, and for the third best, $350. The architect, whose plans are awarded the first prize, will be employed by the board as the superintendent of the work. W. C. Marshall is Chn. of Bd. Herbert S. Hadley, Secy.

ST. LOUIS, MO.—Contracts are reported to have been awarded as follows for the construction and completion of three school additions: Clinton school addition, general work, E. C. GERHARD BUILDING CO., $55,111; plumbing, JOHN J. FRY, $5,515. McKinley high school addition, general work, FRED BOEKE, $45,630; plumbing, P. C. RING, $697. L'Ouverture school addition, general work, F. W. HACKETT, $59,489; plumbing, CRANE-CLANCY PLUMBING CO., at $5,200.

FT. SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Q. M., until 11 a. m., May 15, for the construction of twelve mess halls and kitchens for companies, one mess hall and kitchen for band and one bachelor officers' quarters.

LOS ANGELES, CAL.—The proposition to issue $780,000 of bonds for the construction and equipment of new grammar school buildings and the erection and equipment of high school building was carried at recent election.

SACRAMENTO, CAL.—The Senate has passed a bill appropriating $180,000 for the erection of buildings, and equipping the state fair grounds at Sacramento for expositions and state fair purposes.

Assembly has passed a bill which appropriates $352,000 for repairs to capitol building to be expended by the Board of State Capitol Commissioners. The work which the bill specifies shall be done includes improving and remodeling the building, painting, installing elevators and plumbing system, providing for heating and ventilating the building, and for gas and electricity.

SACRAMENTO, CAL.—Senate and Assembly have passed bills providing for improvement of prisons at Folsom and San Quentin. One provides for the appropriation of $360,000 for the erection of 800 additional cells at San Quentin; the installation of a new power plant, and the extension of the wall; the second provides for the appropriation of $218,000 for the construction of 800 additional cells at Folsom and the erection of wall around the prison grounds; the third for the appropriation of $25,000 for the construction of a hospital for the criminal insane at Folsom.

WALKERVILLE, ONT.—Albert Kahn, Arch., 1117 Union Trust Bldg., Detroit, Mich., has plans ready for figures for a 14-room school house for the board of education, Walkerville.

TORONTO, ONT.—The Traders Bank will erect a 15-story building, it is reported, at Yonge and Colborne Sts.

WINNIPEG, MAN.—City will build a $200,000 police station and public hall, it is said.

MONTREAL, QUE.—Contract for building new Alexandria Hospital has been awarded to JOHN QUINLAN, of Montreal. Cost, $240,000.

WATER SUPPLY AND IRRIGATION

The names of parties awarded contracts are printed in capital letters.

HARDWICK, VT.—John L. Collins, Consult. Engr., 444 Broadway, Albany, N. Y., will make surveys for a water system for this village.

AUBURN, ME.—A. W. P. Cobb, Clk. Water Comrs., writes us under date of April 15 that contract for pipe and fittings for water main extension to Lake Auburn has been let to U. S. CAST-IRON PIPE & FOUNDRY CO. Pipe is to be laid under direction of Water Commissioners.

GLOUCESTER, MASS.—Water Commissioners have awarded contract for furnishing special pipe and castings to DAVIS & FARNUM MFG. CO., Waltham, Mass., for $2,749.

HADLEY, MASS.—Bids will be received at office of E. C. & E. E. Davis, Engrs., Northampton, Mass., until April 26 for furnishing 800 tons of 4, 6 and 8-in. cast-iron pipe, specials, valves, hydrants, etc.; bids will be received also for building small dam and laying about nine miles of water mains for water-works at this place.

LAWRENCE, MASS.—We are informed that this city will soon settle its water supply difficulty by the construction of a new filtering gallery. The orders for this work will probably be given in a short time. A large pumping plant will be required.

PAWTUCKET, R. I.—W. H. Barclay, Comr. Pub. Wks., writes us that a report has just been made by Percy M. Blake, Consult. Engr., Newtonville, Mass., on the improvement and enlargement of the city water-works. According to the report the estimated cost of the projected improvements would be $287,470, divided up as follows: Engine and boiler house, $60,000; draft chimney, $6,500; 15,000,000-gallon pumping engine and foundations, $68,500; immediate water connections, valves and drains, $9,000; four horizontal tubular boilers, $10,300; draft flue, dampers, etc., and steam connections, $13,000; feed pumps and feed water heaters, $4,000; drains and minor foundations, $3,500; scales, fire tools and sanitary conveniences, $2,500; tools, gages, etc., $3,500; pump well, $12,000; draft connections for pumping engine, $3,500; coal store house, $5,500; grading for coal track, track, etc., $7,000; plans, supervision and contingencies, $20,930; new force and distributing mains, $57,240.

BUFFALO, N. Y.—Bids are asked by F. G. Ward, Comr. Pub. Wks., until April 25, for repairs and alterations to six boilers at water-works pumping station.

COHOES, N. Y.—Water Board is reported to be receiving bids until Monday evening, April 24, for one displacement pump of 3,500,000 gallons capacity, one centrifugal pump of same capacity, and electric motors to operate both pumps.

WEST POINT, N. Y.—Specifications for furnishing cast-iron pipe and special castings at West Point may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until May 5, as advertised in Engineering News.

SCOTIA, N. Y.—Bids are asked until May 1 for construction of water-works. Jas. A. Hoyt, Jr., Village Clk.; L. B. Sebring, Schenectady, N. Y., is Engr.

SENECA FALLS, N. Y.—F. Isenman writes us that an election is to be held April 27 to vote on matter of municipal water-works.

DELAWANNA, N. J.—We are informed that Yantacaw Water Co. will build small water-works plant at this place. C. R. Wise, 34 Bloomfield Ave., Passaic, N. J., is Engr.

FORD CITY, PA.—Bids are asked by the Clerk of Council until May 1 for constructing engine house, pump pit and filtering well; also for laying about 2,000 ft. cast-iron water pipe. McNulty Engineering Co., 503 Fifth Ave., Pittsburg, Pa., are Engrs.

CONNELLSVILLE, PA.—What is stated to be the first contract awarded in Westmoreland County in connection with the new water system for the Pennsylvania R. R., which is being constructed by the Mountain Water Supply Co., has been let to BENNET & TALBOT, Greensburg, Pa. Contract calls for 2,600 ft. of tunnel under tracks of Hempfield Branch of Pennsylvania, and contract price is about $150,000.

ASHLAND, PA.—Joseph B. Garner writes us that council has authorized Water Committee to secure services of hydraulic engineer from underwriters to advise as to best method of supplying West End with a more plentiful water supply.

PITTSBURG, PA.—Schenley Farms Co., H. T. Douglas, Jr., 4203 Fifth Ave., Pittsburg, will receive bids until May 1 for improvement of portion of their property in the 14th Ward. Among the items required is 4,500 ft. 8-in. and 7,800 ft. 4-in. cast-iron water main. See also under Streets and Roads and under Sewerage.

WILMINGTON, DEL.—Bids are asked by the Board of Water Commissioners, Sixth and King Sts., until May 1 for supplying approximately 6,000 tons of 42 to 48-in. bell and spigot pipe, and 140 tons of special castings. Alternative bids will be received for 9,500 ft. of 43-in. riveted steel pipe. Theodore A. Leisen, Ch. Engr. (Advertised, Engineering News.)

WILMINGTON, DEL.—We are informed that city Water Department, Theodore A. Leisen, Ch. Engr., has decided to proceed with the construction of the proposed extension and filtration of the water supply on what is known locally as the Weldin Farm Project. The new work when complete will embrace the following: 35,000,000-gallon sedimentation or storage reservoir, five acres of covered slow sand filters, one 10,000,000-gallon filtered water reservoir (covered), 8,000 ft., 42-in. force main, 9,000 ft., 48-in. distributing main, two 12,000,000-gallon vertical triple expansion high duty pumping engines and necessary pumping station for same, and probably a preliminary filter. The funds available for the work are a bond issue of $200,000 and a probable surplus of nearly $100,000 annually, making about $500,000 available between now and February, 1907, at which time it is hoped that a special bond issue may be arranged for to complete the work. The total cost of the contemplated improvements may be roughly estimated at $1,000,000. Mr. Leisen is now preparing plans and it is hoped to start the work in the very near future.

FREDERICKSBURG, VA.—Contract for improving city water-works has been let to CARTRIGHT & DAVIS, Fredericksburg, for $7,000.

RICHMOND, VA.—State Hospital Board has awarded contract for sinking two 8-in. deep drilled wells to SYDNOR PUMP & WELL CO., INC., Richmond.

ALBANY, GA.—City Council has awarded contract for building new 266,000-gallon reservoir to F. B. LEONARD, for $3,370. Bids were received April 4.

VICTORIA, FLA.—We are informed that J. L. LAVAKE, M. E., Victoria, has contract to put in water-works at Tangerine. An Aremotor windmill, 40-ft. sub-tower, 195-bbl. tank, 12-ft. windmill on stub, wheel 60 ft. from ground, will be installed; 500 ft. or more of 3-in. galvanized pipe, valves, etc., will be used. The latter pipe or fittings have not yet been purchased.

ALEXANDRIA, LA.—Contract for developing additional water supply of 500,000 gallons from artesian wells has been let to P. J. PATORNO & CO., New Orleans, La., for $14,000.

THIBODAUX, LA.—This town is reported to be taking bids for furnishing material for extension of its water-works, requiring about 2,600 ft. 6-in. and 5,000 ft. 4-in. cast-iron pipe, 16 two-way hydrants and a lot of special castings and valves. For further information apply to Mayor W. C. Ragan.

ELLISVILLE, MISS.—Bids were opened April 4 for constructing water-works for this town, the contract being let to the BRANTLEY GRANITE CO. Fairbanks fire hydrants, gate valves and valve boxes will be used. Contracts for cast-iron pipe was let to the U. S. CAST-IRON PIPE & FOUNDRY CO., and the tower and tank to the CHICAGO BRIDGE & IRON CO. W. F. Wilcox, of Jackson, Miss., is Engr.

BARBERTON, O.—Contract for laying water mains in Hopocan Ave. has been let to PAUL & HENRY.

CLEVELAND, O.—We are informed that bids will be received in May or June for laying certain water mains in the villages of Cleveland Heights, Lakewood and South Brooklyn. The supply is to be furnished by the city of Cleveland. Wm. H. Evers Engineering Co., 237 The Arcade, Cleveland, are Engrs.

GENEVA, O.—Board Public Service is reported to have awarded contract for water main extension (bids received April 4) to HAHN & HEWITT for $7,563.

NORWALK, O.—Bids are asked by Board Public Service, T. P. Kellogg, Clk., until May 2 for furnishing and delivering 100-HP. boiler for water-works.

FOSTORIA, O.—C. J. Peters, C. E., Tiffin, O., is to prepare plans, etc., for proposed improvement of municipal water-works at this place. Construction of small dam, a large filtration bed and other extensive improvements are proposed.

CINCINNATI, O.—Bids are asked by Water-Works Commissioners, August Herrman, Pres., until May 12, for laying, during the season of 1905, such lines of 6, 8, 10 or 12-in. cast-iron pipe, special castings and valves and other miscellaneous work in connection therewith as may be ordered.

ELKHART, IND.—Elkhart Water Co. is reported to be asking bids for furnishing a large pumping engine and for other improvements.

BELDING, MICH.—Mayor W. F. Bricker writes us that they are now advertising to sell bonds for water-works, and that they will soon have plans and specifications ready for bids. Riggs & Sherman, Toledo, O., are Engrs.

BAGLEY, MINN.—This village will receive bids until May 3 on water-works system, consisting of tower and tank, distribution pipe line system, frame building, deep well pump head and motor. Plans and specifications on file at office of Oscar Claussen, Consult. Engr., Nat. Ger.-Am. Bank Bldg., St. Paul, Minn., and with T. O. Sundet, Village Recorder.

CHICAGO, ILL.—Bids are asked by Department Public Works, F. W. Blocki, Comr., until 11 a. m., April 26, for furnishing all tools, labor, material and appliances necessary to construct two shafts and a water pipe tunnel under the north branch of the river at Montrose Boulevard.

SPOONER, WIS.—L. J. Thompson writes us that contract for installing water-works for this place (bids received March 30) was let to W. D. LOVELL, Minneapolis, Minn.

SIOUX CITY, IA.—Bids are asked by Trustees Water-Works, G. B. Healy, Pres., until May 1 for laying approximately 7,400 ft. 12-in., 500 ft. 8-in., and 5,000 ft. of 6-in. water pipe, together with specials, valves, hydrants, valve boxes, and the replacing or restoring of all pavements cut to lay the pipe.

THIEF RIVER FALLS, MINN.—Bids are asked by this city until 2 p. m., May 1, for construction of steel tower and tank, distribution pipe line system, well, and sewer system with septic tank. D. B. Bakke, Mayor; Lars Backe, Cy. Clk.; Oscar Claussen, Consult. Engr., St. Paul, Minn.

WHITE BEAR, MINN.—Bids are asked by R. J. Bloom, Village Recdr., until 8 p. m., April 24, for construction of water-works system on both the gravity and compressed air systems. Oscar Claussen, St. Paul, Minn., is Consult. Engr. (Mentioned April 13. Post Office of above town is White Bear Lake, Minn.)

HUMBOLDT, KAN.—We are informed that no contracts were let April 12 for city water-works. New bids will be received until May 3 for installing a water-works plant, for a tank and tower and for a deep well. Burns & McDonnell, Kansas City, Mo., are Engrs.; Fred. Speakman is Cy. Clk.

OAKES, N. DAK.—Bids are asked until 8 p. m., May 1, for construction of 4½-in. artesian well. W. S. Wickersham, Cy. Audr.

HUMANSVILLE, MO.—Bids are asked by this town until April 27 for furnishing material and constructing water-works, including water tower and tank. Burns & McDonnell, Engrs., 509 Dwight Bldg., Kansas City, Mo.

SALISBURY, MO.—We are informed that this city contemplates installing water-works at a cost of $15,000 to $17,000 and will call for bids shortly. D. R. Patterson is Mayor.

GREELEY, COLO.—Seven Lakes Reservoir Co. has awarded contract to JOSEPH OSNER, 1308 17th St., Denver, Colo., to complete a large irrigation ditch from Lake Loveland to Dry Creek. It will cost about $15,000.

North Poudre Irrigation Co. has awarded a $10,000 contract to CARSON WELLS for strengthening and enlarging its dam for reservoir No. 13.

DENVER, COLO.—Bids were opened April 10 by U. S. Reclamation Service for construction of inlet canal and headworks for the Belle Fourche, S. Dak., irrigation project, S. R. H. Robinson, St. Louis, Mo., at $99,936, being lowest bidder for the headworks, and Widell-Finley Co., Mankato, Minn., at $107,260, being lowest bidder for the canal. Itemized bids will be given under Contract Prices.

McMINNVILLE, ORE.—H. S. Maloney, Cy. Recdr., writes us that city has voted in favor of issuing bonds for municipal water-works. The matter has been placed in the hands of a committee. Dr. Leroy Lewis, Chn.

VALLEJO, CAL.—We are informed that plans, profiles and specifications for laying about 39,950 ft. of 14-in. cast-iron pipe and bids for the work will be opened about May 1 by Board Public Works. Contract will be let for all material and laying pipe. L. Kaarsburg, Cy. Engr. (Mentioned March 30.)

PASADENA, CAL.—We are informed that no action has been taken as yet for extension of water plants. Extensions will be planned as soon as city takes over plants, bonds for doing which have been voted, but not yet sold. T. D. Allin is Cy. Engr.

SANTA ROSA, CAL.—We are informed that bonds have been voted for various improvements, but it will probably be the end of May before they are sold. No contracts have been let save for fire engine; also a pumping engine was selected a year ago. Water pipe and sewers will be laid and a rock crusher and steam road roller will probably be bought. L. E. Ricksecker is Cy. Engr.

LOS ANGELES, CAL.—All bids received March 15, by U. S. Reclamation Service, J. B. Lippincott, Supervising Engr., for construction of Laguna Dam and sluiceways, are reported to have been rejected. New proposals are to be asked. Itemized bids for this work were given in our issue of April 6.

SMITHFIELD, UTAH.—Contract for 15,000 ft. of trenching and excavation for reservoir for city water-works is stated to have been let to WHEELRIGHT BROS., Ogden, Utah.

BRANDON, MAN.—Bids are asked by Geo. R. Coldwell, Chn. W.-W. Com., until May 1 for laying following approximate quantities of cast-iron water pipe: 16,000 ft. 6-in., 1,600 ft. 8-in., 2,200 ft. 10-in., 1,500 ft. 12-in., including all hydrants, valves and specials required. W. H. Shillinglaw, Cy. Engr.

ST. JOHN, N. B.—Bids were opened by City Council April 12 for water extension to Lock Lomond. The bids ranged from $185,000 to $220,000 and B. Mooney & Sons, St. John, and McArthur & McVey, St. John, are reported to be low bidders, on two sections each.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

EDEN, ME.—Bids are asked until April 21, 2 p. m., for constructing Eagle Lake Road sewer. John E. Bunker, Jr., Selectman.

SALEM, MASS.—Contract for constructing section 1 of main sewer was awarded to THOMAS H. GILL & CO., of Boston. Contract for driving piles for section 5 was awarded to PITMAN & BROWN. All other bids were rejected. Work will be readvertised.

NEW HAVEN, CONN.—Legislature has authorized city to issue $250,000 of sewer bonds.

BUFFALO, N. Y.—Lowest bids received by Commissioner of Public Works Ward for the construction of sewers, were as follows: Floss Ave. sewer, Johnson & Mumm, $4,457; Wilkes Ave. sewer, W. G[illegible]h, $2,780; Regent St. sewer, Johnson & Mumm, $1[illegible] East and West Market Sts. sewer, G. W. Moore, $7[illegible] Alabama, Scott and Hamburg Sts. sewer, G. W. [illegible] $16,900; Perry St. sewer, G. W. Moore, $3,254; F[illegible] St. sewer, G. W. Moore, $3,420; sewer from Main [illegible] Hamburg Canal, near Ohio Slip, through Granger a[illegible] [illegible]ago Sts. to Mackinaw St., G. W. Moore, $11,900; [illegible]ippi St. sewer, Johnson & Mumm, $2,970; Elk St. [illegible], G. W. Moore, $3,122.

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TROY, N. Y.—The contract for constru[illegible] sewer in Pawling Ave. from junction of Pawling an[illegible] [illegible]g Aves. to the city line, was awarded to P. A. LILL[illegible] [illegible] $14,757.

BALLSTON SPA, N. Y.—We are inform[illegible] [illegible] village probably will lay about eight miles of se[illegible] during this summer and also erect a sewage disp[illegible] plant. A bill is now before the legislature providing [illegible] issuance of $150,000 of bonds for this work. H. M. Ge[illegible] Engr. S. C. Medberry is Pres. Trustees.

WELLSVILLE, N. Y.—See under Streets a[illegible] Roads.

NEW YORK, N. Y.—Bids are asked until [illegible] April 26 for alterations to sewer and for building [illegible] sewer. John F. Ahearn, Boro. Pres.

BROOKLYN, N. Y.—We are informed that [illegible] authorization of Flatbush and Bushwick District sewer sy[illegible] is now pending before Board of Estimate and Apporti[illegible] [illegible]t. "The sewer plan in accordance with which these s[illegible] are to be constructed was adopted by the Board of E[illegible]ate and Apportionment some time ago and the initiation [illegible] the sewer proceedings themselves was had in the lo[illegible] [illegible]ard last spring. An effort has been made to obtain ea[illegible]nts, as the sewers are planned to run through mu[illegible] unopened property, and this has somewhat delayed the p[illegible]edings. There will be further delay because of the pur[illegible] of the Sewer Department, in order to increase the [illegible]acity of this particular system, to enlarge a portion of the sewer in Ralph Ave., and plans showing this enlar[illegible]ent are now being prepared in the Sewer Bureau and [illegible] soon be submitted to the Board of Estimate and App[illegible]onment. The sewer construction authorization resolut[illegible] will be amended in the local boards, and the Board of Estimate will then be requested to authorize the cons[illegible]ion of this improvement, the cost of which is estimated at $910,000."

TRENTON, N. J.—The city will build a sewer from the State Home for Girls, to cost $2,500. Harry [illegible]alters is Cy. Clk.

WEEHAWKEN, N. J.—P. J. HEAGNEY was awarded contract for cleaning sewers, at $2,260.

PITTSBURG, PA.—We are informed that bids are asked until May 1 by the Schenley Farms Co., 4203 Fifth Ave., for improving a portion of its property in the 14th Ward. Besides a large amount of paving, etc., there will be required about 26,000 ft. of terra cotta sewer pipe, 6 x 24 ins. H. T. Douglas, Jr., is Ch. Engr.

MOUNT CARMEL, PA.—Bids are asked by Sewer Committee until May 4 for the construction of approximately 10 miles of brick and terra cotta pipe sewers and appurtenances. John F. Gibbons, Chn. T. Chalkley Hatton, Consult. Engr. (Advertised, Engineering News.)

GREENSBORO, MD.—Town is completing arrangements for the construction of proposed sewer system at a cost of $3,000. 12-in. sewer piping will be laid, it is reported. County Engineer Uhler will supervise the work.

WASHINGTON, D. C.—The Commissioners have awarded to the J. CONNELLY CONSTRUCTION CO. the contract for the construction of a sewer in Ninth St. between Savannah and Utica Sts., at $2,222.

ALEXANDER, VA.—The City Council is stated to have passed a resolution providing for the construction of a trunk sewer in the western section of the city, to cost $8,500.

PETERSBURG, VA.—G. B. Gill, City Auditor, states that about $10,000 will probably be expended for paving and sewer improvements.

FT. CASWELL, N. C.—Bids are asked by R. H. Williams, Q. M., until 3 p. m., April 26, for making certain changes in sewerage here.

JACKSONVILLE, FLA.—Bids are asked until May 4 for laying a 24-in. brick drain in Bridge St. and in Adams St.; a 30-in. drain in Margaret St., Riverside. Total cost will be about $11,220.

NASHVILLE, TENN.—T. V. BARNSFIELD was awarded contracts for building two sewers, at $1,628.

LEXINGTON, KY.—Thos. A. Combs, Mayor, writes us that at a recent meeting of the council, he was authorized to employ a consulting engineer to supervise the plans and specifications for the proposed sewerage system. The present plans were prepared by the late Col. Waring, of New York, some years ago, since which time they have been revised by the city engineer, but before asking for bids it is desired that some expert in sanitary engineering go over them and advise the city as to whether or not, in his judgment, any changes, additions or alterations should be made. Applications from engineers, in a position to pass upon such plans are wanted at once, and a committee of five has been appointed to examine each application, and the Mayor will appoint the engineer recommended by this committee. Address John T. Shelby, Chn. of Com.

HOPKINSVILLE, KY.—R. C. West, Cy. Clk., will sell at public auction, on April 22, to the highest and best bidder, a sewer system franchise for a period of 20 years. Noted on April 13.

STEUBENVILLE, O.—Bids will be advertised for building a sewer in Washington and North Sts.

SPRINGFIELD, O.—The report of the committee to investigate a sewer system and disposal plant has been accepted by the council. A bond issue of $225,000 to provide funds for the preliminary work will be voted May 2. The entire cost of the system, according to Charles S. Kay, will amount to approximately $1,000,000.

TOLEDO, O.—Contracts for sewer work have been let to JOHN McMAHON as follows: No. 926, in Buckingham St., $5,881; No. 935, in Albion St., $2,075; No. 942, in alley northwest of Detroit Ave, $2,872; No. 929, in alley between Fremont and Norwalk St., $2,024.

HOUGHTON, MICH.—Village Council will order new sewerage construction, to be undertaken this summer.

CHICAGO, ILL.—About $1,000,000 will be spent by the city for new pavements and sewers. The board of local improvements has ordered the building of street pavements to cost $630,500 and the installation of new sewers to cost $220,500; the work will begin as soon as the contracts are awarded. The largest contract is for a new sewer to connect with the intercepting sewer in Hyde Park. This system will cost $189,324.

FAIRMONT, MINN.—Bonds for $10,000 have been voted. This is to be spent for new sewers. $18,000 was voted for water-works and electric light plant.

THIEF RIVER FALLS, MINN.—We are informed that bids are asked until May 1, 2 p. m., for water-works and sewer system, including septic tank. Oscar Claussen, St. Paul, is Engr. Lars Backe is Cy. Clk.

MINNEAPOLIS, MINN.—We are advised that the WISCONSIN RED PRESSED BRICK CO. has been awarded contract for 100,000 Menominee red sand mould sewer brick for immediate delivery; 600,000 for delivery to commence on or before June 10, at $9.05 per 1,000; also for 500,000 brick to be delivered at later date, at $8.90 per 1,000. ASA PAINE was awarded contract for 150,000 brick from Ercelsior yard at Menominee, for immediate delivery, at $9.75 per 1,000; STANDARD FOUNDRY, contract for 200 tons of special castings at 47,50 per ton. RED WING SEWER PIPE CO, contract for vitrified salt-glazed sewer pipe for season of 1905. Andrew Rinker, is Cy. Engr. Ellis R. Dutton, Asst. Cy. Engr.

MILWAUKEE, WIS.—The contract for building the outlet, the outlet conduit, and engine foundation for the Kinnickinnic River flushing tunnel has been awarded by the board of public works to W. T. DUKE, at $14,317.

ELLENDALE, N. DAK.—Bids are asked until April 24, 8 p. m., for laying complete system of sewerage in this city. V. E. Haskins, Cy. Auditor.

ST. JOSEPH, MO.—We are informed that contracts were awarded on April 7, for the following sewerage: Sycamore St. sewer, contract to WILLIAM MIGNERY, of St. Joseph. Bids submitted as follows: William Mignery, reinforced concrete block, $7,443; Racklifle & Gibson, reinforced concrete block, $9,080; brick, $11,745; plain concrete, $10,040. Hanley & Ritchie, reinforced concrete block, $13,230; plain concrete, $11,950. John Mahoney, brick, $14,433; plain concrete, 11,193. G. O. Skilbred, brick, $10,575; plain concrete, $10,145. William Land, plain concrete, $8,745. J. H. Hartman (bid rejected as irregular). Grand Ave. sewer, contract to RACKLIFFE & GIBSON, of St. Joseph. Bids submitted as follows: Rackliffe & Gibson, reinforced concrete, $23,120; plain concrete, $24,558; brick, $34,980. William M.gnery, plain concrete $24,269. Hanley & Ritchie, plain concrete, $38,100. John Mahoney, plain concrete, $28,310; brick, $35,580. G. O. Skilbred, plain concrete, $32,205; brick, $32,205. William Land, plain concrete, $28,100. Gibson & Simpson, plain concrete, $27,781; brick, $32,705. Mitchell Ave. sewer, contract to WILLIAM MIGNERY. Bids submitted as follows: Rackliffe & Gibson, reinforced concrete, $52,700; plain concrete, $56,527; brick, $82,500. Hanley & Ritchie, plain concrete, $100,489. John Mahoney, plain concrete, $69,847; brick, $81,540. William Land, plain concrete, $64,755. William Mignery, plain concrete, $55,667. South St. Joseph sewer, contract to RACKLIFFE & GIBSON. Bids submitted as follows: Rackliffe & Gibson, reinforced concrete, $96,763; plain concrete, $106,431; brick, $121,519. Hanley & Ritchie, plain concrete, $169,373. John Mahoney, plain concrete, $139,684; brick, $143,270. William Land, plain concrete, $182,462. Wyatt Park sewer, all bids rejected on account of being too high.

KIRKWOOD, MO.—We are informed that T. J. BYRNES, of St. Louis, has been awarded contract for public and district sewers, at $60,000. Contract for three septic tanks was awarded to E. J. HANLEY CO., of St. Louis.

ST. LOUIS, MO.—Bids are asked until May 2 for building a number of sewers during 1905, at estimated cost of $270,000.

KIRKWOOD, MO.—Bids were opened April 3 for sewer system for this town, the contract being let to T. J. BYRNES, St. Louis, Mo., for $60,000. Bids were also considered for three septic tanks to purify the sanitary sewage, the contract being let to E. J. HANLEY CO., St. Louis, Mo.

SEATTLE, WASH.—F. McLELLAN & CO. have been awarded contract for Rainier Ave. trunk sewer, at $82,606.

TACOMA, WASH.—An appropriation of $20,000 may be made for constructing Edison trunk sewer in South Tacoma.

EUGENE, ORE.—Contracts for construction of sewers were awarded to JOHN P. O'NEILL, of Portland, as follows: High St. sewer, $12,170; 14th St. sewer, $1,463; sewer between Seventh and Eighth Sts., $1,304.

BISBEE, ARIZ.—Notice is given that the common council will entertain applications for a franchise for a sewer system for this city. C. W. Hicks is Cy. Clk. Noted on April 6.

IDAHO FALLS, IDAHO.—Bids are asked by Sewer Committee, A. V. Scott, Member, until May 12, for furnishing materials and constructing sewer system in Local Improvement District No. 1. Louis C. Kelsey, Salt Lake City, Utah, is Engr. (Advertised, Engineering News.)

GALT, ONT.—Bids are asked until May 1, 6 p. m., for construction of seven miles of sewer and four miles of storm drains. J. McCartney, Town Clk.

NORTH BAY, ONT.—Contract for construction of sewers was awarded to FRASER, WARD & CO., of Niagara Falls, at $22,995. Septic tanks, power house and residence for engineer not included in contract.

BERLIN, ONT.—Bids are asked until 6 p. m., April 25, for the grading of about 14 acres of sewage filter beds, the laying of force mains, sewage carriers and effluent chains, and the construction of distributing chambers, valve chambers, etc. Plans and specifications may be seen at the office of the Engineers, Davis & Johnston, Economical Block, Berlin. J. F. Honsberger, M. D., Chn. Bd. of Sewerage Comrs.

ARDEN, MAN.—Bids are asked until April 25, 1 p. m., for construction of the Jumping Deer drain in Lansdowne. Estimated quantity, 37,000 cu. yds. R. C. McPhillips, Winnipeg, is Engr. M. E. Boughton is Secy. Town.

EDMONTON, ALTA.—Bids are asked until April 24 for constructing about one mile of sewerage in Saskatchewan Ave. J. H. Hargraves, Cy. Engr.

GARBAGE DISPOSAL—STREET CLEANING

LOWELL, MASS.—Board of Health has awarded contract for constructing $10,000 garbage plant to DECARIE MFG. CO., Minneapolis, Minn.

BATAVIA, N. Y.—We are informed that this village will soon take up matter of garbage disposal. H. J. Burkhart is Village Pres.

AKRON, O.—Bids are asked by Board Public Service, Chas. H. Waters, Secy., until April 28 for sweeping and sprinkling various streets.

NORWALK, O.—Contract for removal of garbage and night soil for term of one year has been let to BROWN & LOCKE, Norwalk.

WASHINGTON, D. C.—Isthmian Canal Commission is asking bids until May 11 for furnishing various supplies such as paints, oils, etc., and among the items desired are garbage carts. The official advertisement appears in this issue of the Engineering News.

PEORIA, ILL.—Mayor Woodruff has appointed a committee to report on matter of a garbage crematory.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—Bids are asked by Board Public Works, Michael F. Walsh, Chn., until May 5 for furnishing composition for use in construction of tar concrete sidewalks during season of 1905. Bids are asked also for furnishing 3,000 sq. yds. or more of vitrified brick, prepared wooden blocks, or asphalt; also for furnishing 12,000 sq. yds. or more of paving blocks. (Advertised, Engineering News.)

FORT GREBLE, R. I.—Bids are asked by Capt. H. C. Hodges, Jr., Q. M., U. S. A., until May 10 for constructing granolithic walks.

WATERBURY, CONN.—Bids are asked by Board Public Works until May 2, 4 p. m., for repairing of tar concrete sidewalks. R. A. Cairns, Cy. Engr.

TORRINGTON, CONN.—We are informed that HERBERT JACKSON, of New Haven, has the general contract for building slate road in Litchfield. CAESAR ROSSI, of Torrington, has the mason work. Jos. P. Wadhams, of Torrington, Engr.

FORT PORTER, N. Y.—Bids are asked by F. F. Jewett, Q. M., U. S. A., until May 1 for constructing sidewalks here.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until May 3 for regulating and repaving with asphalt the roadway of several streets; also for regulating, curbing and laying sidewalks.

SYRACUSE, N. Y.—Bids are asked by Board of Contract and Supply until April 24, 1.30 p. m., for paving Fulton St. and Highland Ave. with asphalt or vitrified brick. Geo. J. Metz, Cy. Clk.

SYRACUSE, N. Y.—We are informed that CHAS. F. HOOKWAY, of Syracuse, was awarded contract for paving Dudley St. with sandstone block for $3,443.

WELLSVILLE, N. Y.—Bids are asked by F. M. Leonard, Cy. Clk., until May 9 for about 11,000 sq. yds. paving and 4,300 lin. ft. curb on South Main St. Bids are asked also for trenching and laying 1,000 ft. 18-in. pipe and 300 ft. 8-in. pipe; also for material and construction of concrete arch, 3 ft. x 4 ft. x 85 ft. in length. R. H. Lee, Cy. Engr. (Advertised, Engineering News.)

TRENTON, N. J.—Bids are asked by Board of Chosen Freeholders of Mercer County until May 2 for furnishing material and macadamizing certain public roads. Frank J. Eppele, County Engr.

NEW BRUNSWICK, N. J.—Bids are asked until May 1 for grading, curbing and paving with brick on Hundy St.; est. cost, $10,000. Fred. C. Schneider, Cy. Engr.

PATERSON, N. J.—H. J. Harder, Cy. Engr., writes us that an ordinance has passed Board of Aldermen to permanently improve a number of streets, about 25,000 sq. yds., with asphalt, and 7,500 sq. yds. with bituminous pavement.

WILKESBARRE, PA.—Bids are asked by Fred. H. Gates, Cy. Clk., until April 24, 12 o'clock noon, for furnishing and delivering vitrified lugged and grooved paving blocks for paving, for about seven miles of streets. Wm. V. Ingham, Cy. Engr.

PALMERTON, PA.—The Palmer Land Co. writes us that it is about to start the construction of concrete pavements, curbs and gutters to be entirely of concrete.

WILKESBARRE, PA.—Specifications on file in office of Engineering News, 220 Broadway, N. Y., for paving, etc., as advertised in Engineering News. Bids to be opened April 29.

PITTSBURG, PA.—Bids will be received until May 1 by Schenley Farms Co., 4203 Fifth Ave., for the improvement of a portion of their property in this city for approximately the following work and material in place: 400,000 cu. yds. grading, 19,000 sq. yds. asphalt paving, 20,000 sq. yds. brick paving, 24,000 lin. ft. curbing, 13,200 sq. yds. cement or flag sidewalks. H. T. Douglas, Jr., Ch. Engr.

WASHINGTON, D. C.—Bids are asked by District Commissioners until 12 noon, April 22, for grading Pennsylvania Ave. (Advertised, Engineering News.)

McKEESPORT, PA.—It is stated that McKeesport will erect over 25 miles of sidewalks this spring. According to city ordinance only concrete and flagstone walks will be permitted.

NORFOLK, VA.—At a recent meeting of Common Council an appropriation of $6,527 for asphalting May Ave., and $3,653 for macadamizing Cooke Ave., was passed. W. T. Brooke, Cy. Engr.

JACKSONVILLE, FLA.—We are informed that GEO. R. FOSTER, JR., of Jacksonville, was awarded contract for grading and laying about 43,730 sq. yds. gravel on portions of several streets, and laying 36,120 lin. ft. of wood curbing. Philip Prioleau, Cy. Engr.

MERIDIAN, MISS.—The city has voted to issue $100,000 in bonds for street paving. The mayor can inform.

SHREVEPORT, LA.—Resolutions were adopted by City Council authorizing the paving of various city streets. Est. cost $27,000. Andrew Querbes, Mayor.

NEW ORLEANS, LA.—The Finance Committee voted to reject all bids for paving several streets which were opened by the Comptroller some days ago. W. J. Hardee is Cy. Engr.

NEW ORLEANS, LA.—Bids are asked by Chas. R. Kennedy, Cy. Comptroller, until April 24 for repaving Dauphine St. with asphalt.

PADUCAH, KY.—Bids are asked by Board Public Works until April 26, 4 p. m., for the reconstruction of Third St. Bids will be asked on Purington Block, manufactured in Galesburg, Ill.; Warren's Bitulithic pavement, and sheet asphalt. Approximate estimates of quantities is as follows: Excavation, 13,296 cu. yds.; paving, 28,650 sq. yds.; stone curbing, 2,232 lin. ft.; cement curbing, 10,400 lin. ft.; c.-i. soil drain pipe, 1,000 lin. ft. L. A. Washington, Cy. Engr.

HARRODSBURG, KY.—Sealed bids are wanted by John Burgin, of Burgin, Ky., on the grading and construction of 3⅛ miles of new turnpike. Also for regrading 4 miles of old turnpike. Plans and specifications may be seen at office of I. H. Gaither, Harrodsburg.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CLEVELAND, O.—Bids are asked by County Commissioners until May 6 for grading, draining and paving of Schaaf Road. Wm. H. Evers, Engr.; Julius C. Dorn, Clk.

AKRON, O.—Bids are asked by Board Public Service until May 4 for grading, curbing and paving with brick on Arch St. Chas. H. Watters, Secy.

XENIA, O.—We are informed that bids will be advertised for about June 1 for paving of Market St., about 17,000 sq. yds., with either asphalt, brick or bitulithic. G. A. McKay, Cy. Engr.

CINCINNATI, O.—Bids are asked by Board Public Service until May 10 for paving Washington St. with bitulithic; est. cost, $24,726.

Contract for improving East 12th St. with asphalt (bids opened April 10) was awarded to KIRCHNER CONSTRUCTION CO., of Cincinnati for $7,705.

The following bids were received by Board Public Service April 14 for improving Vine St. with granite: Wm. Heffron Const. Co., $32,382; Henkel & Sullivan, $33,198; Kirchner Const. Co., $32,541; J. A. Eberhart, $38,068, all of Cincinnati.

NORWOOD (STA. CINCINNATI), O.—It is stated that bids will be received by E. R. Edwards, Clk. Bd. Pub. Serv., until May 13 for grading, curbing and macadamizing on Courtland Ave. J. A. Stewart, Engr.

UHRICHSVILLE, O.—Contract for paving West Third St. and West First St. with fire brick, bids received April 10, has been let to W. H. VOGT & SON, Massillon, O., for $15,784. Henry O. Snyder is Village Clk.

COLUMBUS, O.—The BUCKEYE CONSTRUCTION CO., of Cincinnati, was the lowest bidder, at $24,287, for new roadway in connection with their storage dam project.

LIMA, O.—A contract for paving 9,500 sq. yds. with Acme asphalt has been awarded the WARREN ASPHALT PAVING CO.

XENIA, O.—Market St. will be paved with either brick, bitulithic or asphalt.

MT. VERNON, O.—Bids will soon be invited for the improvement of East High St.

PERU, IND.—Bids are asked by County Commissioners until May 9 for construction of 9½ miles of gravel roads in Harrison Township.

BEDFORD, IND.—Bids are asked by County Commissioners until May 1 for constructing gravel or macadamized roads in Marshall Township, about 48,907 ft. Walter G. Owens, County Audr.

VIERNON, IND.—Bids are asked by County Commissioners until May 1 for constructing about one mile of pike road in Center Township. W. S. Campbell, County Audr.

MICHIGAN CITY, IND.—Bids were received April 3 by Ed. J. Heise, Cy. Clk., for paving with brick on Michigan, Tenth and Eighth Sts., all bids being rejected for work on first-mentioned street. Contract for paving Tenth and Eighth Sts. was let to W. W. HATCH & SONS, Goshen, Ind., for $15,916 and $6,218, respectively. H. M. Miles is Cy. Engr.

HOUGHTON, MICH.—It is stated that bids will be invited immediately by Village Council for paving of College Ave.; est. cost, $60,000.

PARIS, ILL.—Contract for paving W. Madison St., bids received April 14, has been let to MORRISEY & PORTER, Paris, for $19,550. W. T. Blackburn is Cy. Engr.

SALEM, ILL.—The FOULKES-FORBES CONSTRUCTION CO., of Terre Haute, Ind., has been awarded contract for paving in this city. Cost, $40,000.

DANVILLE, ILL.—Contract for paving Collett St. with brick for length of 4,700 ft., and width of 32 ft., has been let to ALPHEUS CRUZAN & CO., Daniel Bldg., Danville. Bids were received April 6. W. H. Martin, Cy. Engr.

BLOOMINGTON, ILL.—The city will probably pave Lee and Oak Sts. Elmer Folsom is Cy. Engr.

EAST ST. LOUIS, ILL.—Bids will be received by Board Local Improvements on April 29 for improvement of Second St. Approximate estimates of quantities is as follows: 5,008 lin. ft. combination curb and gutter; 9,746 sq. yds. vitrified brick paving; 4,880 ft. vitrified sewer pipe. W. J. Crocken, Cy. Engr.

SUPERIOR, WIS.—PARDON S. KAULL has been awarded contract for paving Broadway, 15,570 sq. yds., for Acme asphalt furnished by Warren Asphalt Paving Co.

The contract for macadam paving on Broadway was awarded to OLSON & JOHNSON for $11,156.

DAVENPORT, IA.—Thos. Murray, Cy. Engr., has been directed to prepare plans for paving on a number of streets.

MANKATO, MINN.—Bids are asked by Ed. Weaver, County Audr., until April 25, 12 m., for grading and making a road 1⅓ miles long.

ST. PAUL, MINN.—A resolution was passed by Board of Aldermen authorizing the Twin City Rapid Transit Co., D. W. Dozier, Ch. Engr., Minneapolis, to replace asphalt paving between its tracks in Wabasha St. It is understood that the company will repair the street this summer, provided the resolution passed the assembly.

HUTCHINSON, KAN.—T. G. Elbury, Cy. Engr., informs us that bids will be advertised for soon for paving with brick of nine blocks on Main St.

ST. CHARLES, MO.—Bids are asked until May 4 for 4,640 cu. yds. street grading, 9,331 sq. yds. vitrified brick street paving, and 4,050 lin. ft. Bedford limestone curbing. Carr Edwards, Cy. Engr.

ST. LOUIS, MO.—Bids are asked by Board Public Improvement until April 25 for paving on portions of several streets. Walter Edwards, Secy.

LITTLE ROCK, ARK.—We are informed that bids will soon be asked for by the Board for paving East Ninth St. with brick. S. S. Stewart is Chn. of Imp. Dist. Center St. will also be paved with brick. Address H. L. Rennull. E. A. Kingsley, Cy. Engr.

TACOMA, WASH.—The WARREN CONSTRUCTION CO. has been awarded contract for paving with Acme asphalt a number of streets, aggregating 69,400 sq. yds.

PALO ALTO, CAL.—We are informed that resolutions have been passed by Board of Trustees for laying of bituminous rock and macadam pavements on certain streets; est. cost, $150,000. J. F. Byxbee, Jr., Cy. Engr.

OGDEN, UTAH.—Following bids were received April 8 by A. F. Parker, Cy. Engr., for constructing concrete curb and gutters and concrete sidewalgs for 1905; (1) Wheelright Construction Co., (2) J. P. O'Neil, (3) Gilmartin & Zitsman, (4) Peter Wilson: Concrete curb and gutters, (1) $4,134, (2) $4,071, (3) $5,660; concrete sidewalks, (1) $4,070, (2) $4,310, (3) $4,581, (4) $4,596. Mr. Parker writes us that while the quantities called for in the above work are small in amount, the contract will be for all work done by the city of that class for the year

1905, and will be considerable, but the amount cannot be stated as it is not yet decided where or how much will be done.

PARRY SOUND, ONT.—Bids are asked by E. E. Armstrong, Town Clk., until April 25 for laying of about 55,000 sq. ft. of granolithic sidewalk.

MIDLAND, ONT.—Bids are asked by Public Works Committee until April 22, 4 p. m., for construction of about 40,000 superficial feet of concrete walk, 2,500 superficial feet of crossings and 4,000 lin. ft. of concrete curbing. Thos I. Trueman, Town Clk.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

EAST RYEGATE, VT.—Contract was let April 1 to CALLONAN BROS., of Keeseville, N. Y., for construction of paper mill buildings, and dam across Connecticut River for the Ryegate Paper Co. Geo. F. Hardy, 309 Broadway, New York, is Arch. and Engr.

PROVIDENCE, R. I.—J. H. Hallberg, Elec. Engr., 45 Broadway, New York, will take figures soon on about 1,000 HP. of electric motors for the Atlantic Mills Co., of Providence. A. D. Juilliard, 70 Worth St., New York, is Pres.

BATAVIA, N. Y.—Bids will be received until May 1 by P. W. Minor for erection of a three-story factory building, 42 × 172 ft. Cost, $12,000. H. W. Homelius, 42 Main St., is Arch.

BROOKLYN, N. Y.—Plans have been prepared by Andrew Rissler, Arch., 955 Broadway, Brooklyn, for an iron foundry for Taylor & Co., Norman and Morgan Aves. Brick, 1 story, 58 × 125 ft. Cost, $5,000.

Same architect has plans for a two-story mustard factory, 34 × 95 ft., for Garret Berger Co., Newell St. Cost, $4,500.

BROOKLYN, N. Y.—The United States Printing Co., 91 North Third St., Brooklyn, will build a new factory and will require boilers, engines, generators and motors. R. D. Poulsen is in charge.

OLEAN, N. Y.—The American Hide & Leather Co., 92 Cliff St., New York, will probably rebuild factory here destroyed by fire last fall.

HERKIMER, N. Y.—E. S. Farwell, Consult. Engr. 309 Broadway, New York, will soon take figures on about 50 electric motors for the Horrocks Desk Co., of Herkimer.

NEW YORK, N. Y.—Richard Hudnut, 44 East 19th St., will erect a new factory at 115-17 East 29th St. Brick, 6 stories, 60 × 120 ft. Henry Ives Cobb, 115 Broadway, is Arch.

NEW YORK, N. Y.—To reconstruct car-house and shops of Metropolitan system for New York City Ry. Co., on Second Ave., from 96th and 97th Sts., will cost $100,000. All wooden floors, posts and girders are to be replaced with floors of concrete, new columns on concrete foundations. A. V. Porter.

PATERSON, N. J.—Jacoby & Weishampel, Archs., Commonwealth Bldg., Allentown, Pa., have taken bids for silk mill for Phoenix Silk Co., Paterson. Brick, 3 stories, 54 × 486 ft.

NEWARK, N. J.—The Central Railway of New Jersey will erect a coal handling plant of about 15,000 tons capacity near Newark this year. B. P. Flory is Mech. Engr., Jersey City.

HARRISBURG, PA.—Blough Bros. will make improvements to their factory on North Third St.

HARRISBURG, PA.—Plans are being drawn for an eight story and stone brewery, ice manufacturing and cold storage plant, to cost about $125,000. Address Chas. H. Bergner, this city.

PHILADELPHIA, PA.—The Standard Roller Bearing Co., 48th St. and Girard Ave., is having plans prepared for an addition to its factory.

T. F. Miller, Arch., 1126 Walnut St., has plans ready for bids for an addition to factory at 10th and Rodman Sts., for C. E. Johnson & Co.

LANSFORD, PA.—Dodge & Day, Engrs., of Philadelphia, commissioned some time ago by Lehigh Coal & Navigation Co., to take charge of its improvements at Lansford, including new buildings, machine tools and electrical equipment, are now taking charge of the erection of a new centrally located power plant. This will provide current for shops, Tamaqua & Lansford Street Railway and electrical equipment will be installed in mines for pumping and transportation purposes. Dodge & Day are investigating the latter subject and specifications will shortly be sent out.

BALTIMORE, MD.—B. F. Zollner, of Charlerol, Pa., agent for Graphite Paint Co., has purchased the Canton mills property and will establish a paint factory.

BALTIMORE, MD.—The Montford Machine Casting Co., Montford Ave., will erect an addition to its plant, after plans and specifications by Chas. M. Anderson, Arch., 324 North Charles St.

BALTIMORE, MD.—The Farlow Draft Gear Co. has been incorporated by James Farlow, Gen. Mgr. South Baltimore Steel Car Works; M. A. Garrett, Chicago, Ill., and others. A large factory will be built. About $200,000 will be expended.

The Summers Printing Co., 17 South Howard St., will erect a four-story printing plant building, 75 × 150 ft. on South Eutaw St. Cost, $100,000.

RICHMOND, VA.—The Pocomoke Guano Co. will soon erect a factory building here, it is stated, to cost $100,000. The factory will be built on Belt Line Railroad, near Money Point. The company also proposes to build a 200-ft. wharf, and it is making arrangements to have water front dredged.

ELKINS, W. VA.—Fire destroyed plant of the Elkins Tannery Co. Loss, $200,000.

LOUISBURG, N. C.—C. B. Cheatham will erect a tobacco prizery, to be equipped with the latest improved machinery.

CHARLOTTE, N. C.—Fire destroyed the plant of Shaw Harness Co. Loss, $30,000.

NEWBERN, N. C.—It is stated that the Virginia-Carolina Chemical Co., of Richmond, Va., will establish a large plant here.

COLUMBIA, S. C.—The erection of a buggy factory is projected. Secretary Chamber of Commerce can inform.

WAYCROSS, GA.—It is reported that the Atlantic Coast Line R. R. Co. is preparing to expend about $400,000 in shops and other improvements at Waycross. Morton Riddle is Asst. Ch. Engr., Savannah, Ga.

HIRAM, GA.—A cotton mill is to be erected here. B. T. Drake, of Dallas, Ga., is interested and can inform.

JACKSONVILLE, FLA.—White & Walton will erect a factory building, 40 × 140 ft.

ATHENS, ALA.—The Hollow-Blow Stave Co. will erect a $20,000 finishing mill here.

ATHENS, ALA.—A candy and cracker factory is to be erected here, according to the "Pink Sheet Daily Bulletin." Henry Christensen will be manager.

JACKSON, MISS.—Contract has been awarded by Mississippi Foundry & Machine Co., of this city, to G. T. HALLIS & CO., of Atlanta, Ga., for construction of an addition to plant, 50 × 100 ft., for $6,000. The new department will be used for the manufacture of mill supplies.

JACKSON, MISS.—Property has been purchased near this city, on which a large hardwood factory is to be erected. J. W. Cain, who sold the land, can give information.

RAYVILLE, LA.—L. T. Wilson is general manager of $15,000 company, reported as organized to erect a heading factory. He desires to correspond with parties manufacturing tight barrel machinery.

MEMPHIS, TENN.—The American Hoe & Fork Co. has purchased the property of the Lansing Wheelbarrow Co., in South Memphis and will erect a large plant for the manufacture of their product. Geo. B. Durell is Treas.

LOUISVILLE, KY.—Hinshaw & Markham will erect a factory here to manufacture all kinds of woodwork.

PADUCAH, KY.—The PADUCAH CONSTRUCTION CO. has been awarded the contract for new factory building of Mergenthaler-Horton Basket Co., to be erected in Mechanicsburg. Frame, 2 stories, and cost $4,000. The company intends installing new machinery and enlarging its plant.

BOWLING GREEN, KY.—A $25,000 ice factory will be erected here. J. B. Stubbins can give information.

HOPKINSVILLE, KY.—J. L. Long, Arch., Hopkinsville, has prepared plans for a three-story tobacco factory, 250 × 350 ft., for the Imperial Tobacco Co. Cost, $75,000. Address owner.

PORTSMOUTH, O.—Propositions are desired by Portsmouth Steel Co. for construction of an addition to company's mill building at Portsmouth. The addition consists of one building 120 × 90 ft., 340-ft. runway for 15-ton crane and 120-ft for 10-ton crane; 180 tons of structural steel required, also 13,000 sq. ft. corrugated steel No. 20, 4,000 sq. ft. of No. 22 and 3,000 sq. ft. of windows. Est. cost, $15,000. D. F. Nisbet, Consult. Engr., 409 Lewis Bldg., Pittsburg, Pa.

CLEVELAND, O.—The Cleveland Hardware Co. will erect a four-story brick and iron building at Lake and Belden Sts., 79 × 171 ft. Cost, $28,000.

CLEVELAND, O.—The W. S. Tyler Co. was granted a permit for a four-story brick and iron building to be located at St. Clair and Aaron Sts. Cost, $11,000.

SOUTH BEND, IND.—The American Graphite Co. has incorporated with a capital stock of $300,000. The company will establish mills to manufacture graphite, etc. Adam Huntsburger, Wm. Clem and others, directors.

DETROIT, MICH.—The Burroughs Adding Machine Co. has purchased two acres of land adjoining its factory, and propose to erect an addition to its manufacturing plant. Lloyd Rowlands, Agt., 1310 Majestic Bldg.

CHICAGO, ILL.—J. S. Flizikowski, Arch., 1059 North 41st St., is preparing plans for brick factory building. Cost, $25,000.

J. E. Youngberg, Arch., 218 La Salle St., is taking figures for shops for Chicago Southern Traction Co. Est. cost, $100,000.

J. F. Dornfeld, Arch., 134 Vanburen St., is taking bids for malt house for American Malting Co. Cost, $50,000. Richard Griesser, Arch., Schiller Bldg., has plans for a $150,000 brewery.

CHICAGO HEIGHTS, ILL.—Fred. C. Ayer has sold his interest in the Baschen & Ayer Machine Co., of Chicago Heights, and will build a plant of his own where he will manufacture metal specialties.

CHICAGO, ILL.—The contract for construction of largest shape mills in United States Steel Corporation has been awarded to MESTA MACHINE CO., of Homestead, Pa., by the Illinois Steel Co., of Chicago, at a cost of approximately $250,000.

MILWAUKEE, WIS.—The Allis-Chalmers Co. has decided to begin immediately a $3,000,000 extension to their Milwaukee works for the manufacture of electrical machinery of all kinds and for the construction of steam turbines hydraulic turbines and gas engines. Three large buildings will be erected and two of the existing buildings extended. The electrical department at Milwaukee will be operated in connection with the plant of the Bullock Electric Mfg. Co., of Cincinnati, which is owned by Allis-Chalmers Co.

TOPEKA, KAN.—Contract for construction of new state printing plant, at 10th and Jackson Sts., will be let early in June. Cost, about $30,000. John F. Stanton is State Arch.

CARTHAGE, MO.—A. E. Ehlers, Arch., 1327 South Maple St., has prepared plans for a three-story repair shop for J. Butcher Carriage Co., to cost $10,000. Address owner.

LITTLE ROCK, ARK.—The Little Rock Furniture & Mfg. Co. will rebuild its plant, which was burned last December. E. J. Bodman is Secy. and Mgr.

LITTLE ROCK, ARK.—Benjamin C. Brownell, of Providence, R. I., contemplates establishing a cotton mill here. The Secretary Board of Trade can give information.

CLARKSVILLE, ARK.—The Southern Match Co., of Toledo, O., will establish a $75,000 match factory here.

DALLAS, TEX.—The Brown Mfg. Co. will establish and operate a buggy factory here. John A. Cleighton will be manager.

BEAUMONT, TEX.—Lon Bernard, S. H. Van Wormer, Geo. Adams and others will organize a $75,000 company to establish a 60-ton ice plant here.

COLUMBUS, TEX.—E. A. Clousnitzer will erect an ice factory here at a cost of $15,000.

DURANT, IND. T.—Bids will be received until May 1 for a two-story addition to oil mill, 35 × 40 ft., for Durant Cotton Oil Co. W. A. Stevens is Arch., Durant.

ALBUQUERQUE, N. MEX.—Bids are asked by F. E. Leupp, Comr. of Indian Affairs, Washington, D. C., until May 8 for furnishing and delivering necessary materials and labor required to construct and complete a brick laundry building, with plumbing, at the Albuquerque School.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

SANTA CLARA, CAL.—The Pratt-Low [illegible] Preserving Co. has awarded to ROBT. SUMMERS, of S[illegible], the contract for erection of a cannery.

WINNIPEG, MAN.—Plans have been [illegible]ated by J. Y. Griffin & Co., pork packers, for the [illegible] of a beef plant to replace one recently burned, a[illegible] meat canning plant, a combined cost of approx[illegible] $100,000. Brick, 3 stories, 300 × 60 ft.

WALKERVILLE, ONT.—Hiram Walker [illegible] Sons, are about to erect a distillery, which will b[illegible] largest in Canada, and will double capacity of pre[illegible] plant.

WOODSTOCK, ONT.—The Cyclone W[illegible] Co., of Toronto, have been given a free site in t[illegible] and will elect a factory.

HAMILTON, ONT.—The Canadian Draw[illegible] Co. will erect an addition to its factory, to cost $[illegible]

OTTAWA, ONT.—J. R. Booth has pla[illegible] consideration for the erection of a large paper [illegible]

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts [illegible] printed in capital letters.

PIER WORK.—Buffalo, N. Y.—Bids are a[illegible] until May 13 for concrete superstructure on south p[illegible] Buffalo. Lt.-Col. H. M. Adams, U. S. Engrs. (Advert[illegible] Engineering News.)

DREDGING.—Madison, Wis.—Contract f[illegible] dredging a lake at this place has been let to LA CRO[illegible] DREDGING CO., La Crosse, Wis., for $60,000.

DREDGING.—Grand Rapids, Mich.—Bids a[illegible]ked until 10 a. m., April 22 for dredging harbors on [illegible] shore of Lake Michigan. Col. M. B. Adams, U. S. [illegible]

DREDGING.—Newport, R. I.—Bids are ask[illegible] until May 10 for dredging in New Bedford Harbor, [illegible] J. H. Willard, Lt.-Col., Engrs. (Advertised, Engineering News.)

CEMENT.—Edmonton, Alta.—Bids are ask[illegible] by G. J. Kinnaird, Secy. Treas. until April 24, fo[illegible] bbls Portland cement. Particulars may be obtain[illegible] from city engineer.

EXCAVATION.—Buffalo, N. Y.—Bids are asked until May 15 for channel and basin excavation at Erie Harbor, Pa. Lt.-Col. H. M. Adams, U. S. Engrs. (Advertised, Engineering News.)

ROCK EXCAVATION.—Chicago, Ill.—Bids are asked until May 15 for rock excavation in Calumet River, Ill. Lt.-Col. Wm. H. Bixby, U. S. Engrs. (Advertised, Engineering News.)

EXPLOSIVES.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 18 for furnishing explosive-blasting powder, caps, etc. (Advertised, Engineering News.)

BROOMS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 13 for furnishing corn brooms, feather dust brushes, etc. (Advertised, Engineering News.)

REPAIRING BATHS.—Brooklyn, N. Y.—Bids are asked by Martin W. Littleton, Pres. Borough of Brooklyn, until April 26 for labor and materials for repairing and fitting out five free floating baths.

RIPRAP.—Duluth, Minn.—Bids are asked until May 13 for furnishing and placing about 53,000 tons of riprap at Ashland, Wis. Major Chas. L. Potter, U. S. Engrs. (Advertised, Engineering News.)

BRICK CLAY, DOORS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 18 for furnishing brick and fire clay, doors, blinds and wire screens. (Advertised, Engineering News.)

CEMENT.—Picton, Ont.—Bids are asked by Mayor G. M. Farrington until May 1 for supply of from 400 to 600 bbls. Portland cement for sidewalk construction. Prices to be quoted f. o. b. Picton car or boat.

BREAKWATER.—Buffalo, N. Y.—Bids are asked until May 20 for the construction of an extension to the breakwater at Cape Vincent, N. Y. H. M. Adams, Lieut.-Col., Engrs. (Advertised, Engineering News.)

PIER WORK.—Cleveland, O.—Bids are asked until May 19 for reconstructing and repairing parts of the west pier at Lorain Harbor, Ohio. Lt.-Col. Dan C. Kingman, U. S. Engrs. (Advertised, Engineering News.)

DITCH WORK.—Fairmont, Minn.—Contract for constructing Elm Creek Ditch and Dutch Creek Ditch, bids received April 4, is reported to have been let to WYDELL-FINLEY CO., Mankato, Minn., for $20,955.

PAINTS, OILS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 11 for furnishing paints, oil, chemicals, garbage carts, wire netting, etc. (Advertised, Engineering News.)

PAINTS AND OILS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 15 for furnishing paints and oils, beeswax, borax, bronze, rubber, cement, etc. (Advertised, Engineering News.)

RANGES, STOVES, ETC.—Bids are asked by Isthmian Canal Commission until May 12 for furnishing kitchen equipment for Ancon Hospital. Major H. J. Gallagher, U. S. A., Purchasing Agent. (Advertised, Engineering News.)

CEMENT.—Wheeling, W. Va.—Bids are asked until May 16 for furnishing and delivering about 15,000 bbls. American Portland cement for Dam No. 18, Ohio River. Major Geo. A. Zinn, U. S. Engrs. (Advertised, Engineering News.)

CABLE.—Washington, D. C.—Bids are asked by James Wilson, Secy. of Agriculture, until May 10, for furnishing, delivering and laying 35 statute miles of one conductor telegraph cable between Charlevoix and Beaver Island, Mich.

PIER WORK.—New York, N. Y.—Commissioner of Docks has awarded contract for material and extending and repairing pier at foot of W. 158th St., bids received April 12, to G. B. SPEARIN, 17 Battery Pl., New York, for $21,180.

SANITARY FIXTURES, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 18 for furnishing sanitary fixtures and roughing material, galvanized pipe, wrought iron pipe, etc. (Advertised, Engineering News.)

SWITCHBOARDS.—Washington, D. C.—Bids are asked by Disbursing Officer, Signal Corps, U. S. A., until May 11, for furnishing signal corps with ten-drop telephone switchboards. Brig.-Gen. A. W. Greely, Ch. Signal Officer, U. S. A.

ISLAND.—New York, N. Y.—Contract for building new island in connection with Ellis Island immigrant station, New York Harbor, is reported to have been awarded March 14, to NEW JERSEY BRIDGE & DOCK CO., Elizabeth, N. J., for $119,000.

DRAINAGE DITCHES.—Breckenridge, Minn.—Bids are reported asked until May 2 for constructing drainage ditches in Sub District No. 2, requiring removal of 429,670 cu. yds. of earth. John H. Ehlert, Chn. Bd. Supervisors, Sub Drainage District No. 2.

BREAKWATER.—Los Angeles, Cal.—Bids are asked until May 11 for continuing construction of breakwater at San Luis Obispo Harbor, Cal., Capt. C. H. McKnistry, U. S. Engrs. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

GRADING WORK.—Oglethorpe, Ga.—Atlantic & Birmingham Construction Co., Alexander Bonnyman, Ch. Engr., has grading work to let between this place and Talbotton, Ga. Particulars can be obtained from the Chief Engineer. (Advertised, Engineering News.)

JETTY WORK.—Savannah, Ga.—Bids are asked until May 19 for repairing and raising portions of the South jetty and raising extreme outer end of the North jetty at Cumberland Sound, Ga., and Fla. Lt.-Col. James B. Quinn, U. S. Engrs. (Advertised, Engineering News.)

MISCELLANEOUS SUPPLIES.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 17 for furnishing miscellaneous supplies, such as railroad tools and supplies, foundry supplies, forges, belting, hose, wheelbarrows, water tanks, etc. (Advertised, Engineering News.)

PANEL BOARDS, CABLE, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until May 2, for furnishing quantity of naval supplies, among which are panel boards, cables, water meters, drills, steel angles, hose, etc. H. T. B. Harris, Pay. M. Gen., U. S. N.

COAL TIPPLE.—Irwin, Pa.—Bids are asked by Westmoreland Coal Co. for construction of steel coal tipple at Export, Pa., to cost about $10,000. Separate bids are wanted for about 80 tons structural steel for flooring, chutes, screens, etc. Drawing and specifications at Engineer's office, Irwin. B. F. Jones, Gen. Supt., Irwin.

TINSMITHS' SUPPLIES, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 12 for furnishing tinsmiths' supplies, carpenters' tools, linen hose, railroad tamping shovels, tackle blocks, nuts, rivets, bolts, lag screws, machine and boiler bolts, nails, screws, rope, etc. (Advertised, Engineering News.)

REVERBERATORY FURNACE.—New York, N. Y.—MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn., has secured the contract for building the new reverberatory furnace for the Greene Consolidated Copper Co. at the mines in Cananea, Sonora, Mex. Between 600 and 700 tons of structural steel mill be required.

LUMBER.—Washington, D. C.—Bids are asked by the Isthmian Canal Commission until May 19 for furnishing about 14,000,000 ft. of dressed lumber. Assistant Purchasing and Shipping Agent, 24 State St., New York, or Custom House, New Orleans, La. Maj. H. J. Gallagher, U. S. A., Purchasing Agent. (Advertised, Engineering News.)

CEMENT, PILES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until May 9 for furnishing Portland cement, sand, gravel, coral rock, roofing tile, hardware, ventilators, gutters, etc., yellow pine, piles, steel shapes, driving piles, hand tools and tool steel. H. T. B. Harris, Pay. M. Gen., U. S. N.

CEMENT.—Washington, D. C.—Following bids were received by Isthmian Canal Commission April 13 for furnishing 10,000 bbls. American Portland cement: Commercial Wood & Cement Co., 949 Broadway, New York, $2.44; Atlas Portland Cement Co., 30 Broad St., New York, $2.32; Alfred Hiller, New Orleans, La., $2.32, for Alsen brand.

LUMBER, PILES, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until May 16 for furnishing merchantable yellow pine or Douglas fir (rough timber), creosoted piles and wharf timber (yellow pine and cypress), and yellow pine decking (dressed). Major H. J. Gallagher, U. S. A., Purchasing Agent. (Advertised, Engineering News.)

ROAD ROLLER.—West Point, N. Y.—Bids are asked by Quartermaster, U. S. M. A., until 12 o'clock noon, April 27, for furnishing and delivering one steam road roller. A machine is required that weighs not less than 12,000 or more than 16,000 lbs. The boiler is to be of the vertical type and the engines to be double reversible with slow and fast speed gearing.

DREDGING, PIER WORK.—Milwaukee, Wis.—Bids are asked until May 16 for dredging Gladstone Harbor, Mich., for concrete superstructure on breakwater and on North harbor pier, Milwaukee, and for removing old piers and building pile piers and timber superstructure, Waukegan Harbor, Ill. Major J. G. Warren, U. S. Engrs. Advertised, Engineering News.)

MACHINERY, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission, Major H. J. Gallagher, U. S. A., Purchasing Agent, until May 13, for furnishing machinery, tumblers, grinders, drills, presses, planers, lathes, saws, boring machines, wheel presses, air compressors, locomotive turn tables, head lights, air brakes, machine tools, steam rollers, hand cars, push cars, etc. (Advertised, Engineering News.)

FERRY STRUCTURES.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Pier A, Battery Pl., until May 1 for furnishing all the labor and materials required for preparing for and removing the present ferry structures at St. George, Staten Island, Borough of Richmond, and building new ferry structures in connection with the new St. George ferry terminal and for dredging thereat.

WIRELESS TELEGRAPH OUTFITS.—Washington, D. C.—U. S. Navy Department has awarded to the INTERNATIONAL TELEGRAPH CONSTRUCTION CO., New York, the contract for equipping with a wireless telegraphic outfit the battleship Pennsylvania at a cost of $2,175, the battleship Maryland at $2,225 and for supplying two sets of wireless apparatus to the New York Navy Yard for $3,750.

TRAVELING CRANE.—Norfolk, Va.—The Bureau of Yards and Docks, Navy Department, Washington, D. C., has placed in the hands of the printer a specification covering the furnishing and installation of a 15-ton electric traveling crane for Building No. 37, navy yard, Norfolk, Va., the crane to be of the four-motor type, with a span of about 56 ft. The advertisement inviting proposals should appear in about three weeks.

DAM WORK.—Pittsburg, Pa.—Following bids were received April 17 by Major Wm. L. Sibert, U. S. Engrs., for (1) building Dam No. 2 at Six-Mile Island, Allegheny River, and (2) for work at Dam No. 3, at Glenosborne, Pa.: Dravo Contracting Co., Pittsburg, Pa., (1) $213,422, (2) $225,146; Baker Contract Co., Pittsburg, Pa., (1) $230,817, (2) $227,448; Jas. H. McQuade Co., Pittsburg, Pa., (1) $197,337; Ohio River Contract Co., Evansville, Ind., (2) $217,020.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until May 23, for furnishing quantity of machine tools, as follows: Grinders, engine, lathes, drills, presses, planers, hammers, punches, shear, plate bending and straightening rolls, pipe bender and cutters, sanders, clamping, milling, mortising, molding and slotting machines, boring mill, shaper, bolt cutter, pneumatic jib crane, drills, sawing machine and foundry cupolas. H. T. B. Harris, Pay. M. Gen., U. S. N.

COAL PLANT.—Pensacola, Fla.—The Bureau of Yards and Docks, Navy Department, Washington, D. C., has placed in the hands of the printer a specification upon which proposals will be invited for the installation of a plant in the central power house building, Navy Yard, Pensacola, for conveying, threshing and distributing 50 tons of coal per hour from bottom dump cars on a surface track to two elevated bunkers of 200 tons capacity each by means of electrically driven belt conveyors. The bunkers are also to be installed by the contractor. The estimated cost of the work is approximately $16,000. Advertisement inviting proposals should appear soon.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

ICE PLANT.—Monterey.—The Toluca Brewing Co., of Toluca, will establish an ice manufacturing plant at Monterey.

SEWERS.—Parral.—Nelson Rhoades, Jr., of O'Brien & Rhoades, Denver, Colo., has been preparing plans for a sewer system for this city.

DREDGING.—Tampico.—The Mexican Government has awarded the contract for dredging the Panuco River in front of Tampico to CHARLES E. SHILLABER, Chicago, Ill.

ELECTRIC POWER PLANT.—Guerro.—Marcelo Valentin, City of Mexico, has taken preliminary steps towards establishing a large electric power plant in the state of Guerrero.

COTTON FACTORY.—San Luis Potosi.—Thomas Willard, city of San Luis Potosi, has obtained a concession to establish a cotton factory in that city, and will commence building immediately.

BRIDGE.—Chihuahua.—Contract for building 1,800 ft. long steel and masonry bridge over the river at Ortiz, Chihuahua, for the Mexican Central Ry., has been let to BELL & SEEMS, City of Mexico.

RAILWAY.—Guanajuato.—It is announced that work is to be commenced about June 1 on the railway from this city to Salamanca, which is projected by a company headed by Dwight Furnass of Guanajuato.

FLOUR MILL MACHINERY.—Saltillo, Nuevo Leon.—The Fenix flour mills, of Saltillo, have been purchased by Ernesto Madero, city of Monterey, and the capacity of the plant is to be considerably increased.

RAILWAY.—Jalisco.—F. M. Ames, C. E., has commenced a preliminary survey for a railway line from the city of Ameca, Jal., to the Pacific port of Las Peñas, on Bande as Bay. A. W. Geist, of the city of Guadalajara, is interested.

FACTORY.—City of Mexico.—Francisco Coudurier City of Mexico, representing Mexican Aluminum Mfg. Co., has applied for concession for establishment of factory for manufacturing finished articles in aluminum. It is proposed to invest $200,000 in the plant.

STAMP MILL.—Guanajuato.—The Peregrina Mining & Milling Co., of Guanajuato, have awarded the contract for a complete 40-stamp mill to the FULTON IRON WORKS, San Francisco, Cal., represented by W. J. Williams, City of Mexico. The cost will be about $70,000.

CONCENTRATING PLANT.—City of Mexico.—The Negociacion Minera y Beneficiadora de San Antonio y Anexas, S. A., 24 Calle de la Cadena, City of Mexico, have definitely decided to erect a concentrating plant at the mine for the treatment of the ore, and work will commence at once.

ELECTRIC LIGHT PLANT.—Chapala.—Contract for installation of the electric lighting plant at Chapala, Jal., for which the concession is held by Carlos Navarro Mora, of Guadalajara, has been awarded to the firm of UGARTE & GARCIA FUENTES, electrical engineers, of the latter city.

RAILWAY.—Jalisco.—Advices received in Guadalajara are to the effect that the Mexican Central Ry. management is making preparations to commence work on the extension of the Zapotlan branch from Tuxpan to Colima May 1. HAMPSON & SMITH are the contractors for the work.

BUILDING.—Leon, Guanajuato.—The U. S. STEEL PRODUCTS EXPORT CO., agent in Mexico for the U. S. Steel Co., has been awarded the contract for the steel frame for a large commercial structure to be erected by Ignacio Madrazo in the city of Leon. The building has a frontage of about 300 ft.

BRICK FACTORY.—Federal District.—Abelardo Mingo, No. 6 Calle de First Mina, City of Mexico, is to establish a brick factory at Mixcoac, a suburb of the City of Mexico, with a daily capacity of 50,000 brick. The continuous kiln process will be used, and the most modern type of machinery will be installed.

COAL MINING MACHINERY.—Sabinas, Coahuila.—W. C. Beckman, of Parral, is negotiating with a syndicate of Pittsburg capitalists for the necessary capital to develop at once the coal field he owns near Sabinas, Coahuila. If the negotiations are consummated a large amount of machinery will be installed.

SCREW AND NAIL FACTORY.—Manuel M. Legorreta, City of Mexico, is to establish a factory for making horse shoe nails, screws of all classes, etc., on a large scale, and has applied for a concession granting exemption from taxes and duties on the machinery and material necessary to import.

MINING MACHINERY.—Mascota, Jal.—The company operating the Aranjuez mine, in the Mascota district, Jalisco, has contracted with the firm of UGARTE & GARCIA FUENTES, city of Guadalajara, for a considerable amount of mining machinery, consisting of boiler and engine, air compressor and pneumatic drills.

ELECTRIC WORK.—The firm of GARDNER & SHEARER, electrical engineers, City of Mexico, has been awarded the contract for changing the electric lighting system of the city of Puebla from the Thompson-Houston to the General Electric type. The city now has 248 arc lamps, and this number will be increased to 416. Work will commence at once.

ARTESIAN WELL.—Oaxaca.—It is stated that a bonus of $17,000 is offered by the state of Oaxaca to the party or parties who within three years from date of the promulgation of the decree, shall drill and render serviceable the first artesian well of the state. The legislative power of the state wishes to encourage well drilling. The well will belong exclusively to the party or parties who drill it.

HOTEL.—Ribera Castellanos, Jal.—Geo. E. King, Arch., Guadalajara, has completed plans for a hotel of 60 rooms, to cost $200,000, to be built at Ribera Castellanos, a resort on Lake Chapala, owned by the Lake Chapala Agricultural & Improvement Co., of which Dwight Furness,

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. Do not fail to write our advertisers or us.

ASBESTOS PIPE COVERING.—Claremont, N. C.—O. D. Murray & Co. are in the market.

PAINT FACTORY EQUIPMENT.—Lexington, Ky.—The Skyo Mfg. Co. is in the market for equipment for making paint.

CLAY SHINGLE MACHINE. — Marion, Va.—Cooley Bros. and Smith & Co. are in the market, according to reports.

CONVEYING MACHINERY.—Alabama City, Ala.—J. M. Broutwell is in the market for machinery for conveying kindling wood.

CREOSOTING APPARATUS.—Savannah, Ga.—Willcox-Ives Oil Co., 128 E. Bay St., is in the market for creosoting apparatus.

REFINING MACHINERY.—Oklahoma City, Okla.—The Okla. Oil, Paint & Asphalt Co. is in the market for equipment for refining 20 tons of oil a day.

SEWER PIPE MACHINERY.—Anderson, S. C.—Burriss & Dival, of Anderson, want the addresses of manufacturers of sewer pipe machinery, etc.

75-LB. RELAYING STEEL RAILS.—Hancock, Mich.—Wm. W. Stockly, Ch. Engr. Keweenaw Central R. R., writes us that he is in the market for the above.

32,000-FT. C. I. WATER PIPE.—West Point, N. Y.—Lt. M. J. McDonough, U. S. Engrs., writes us that he is in the market for 2,700 tons of c. i. water pipe.

MINING SUPPLIES.—Waterloo, Mo.—M. B. Ferguson, Mgr. Waterloo Coal & Mining Co., Box 21, is in the market for all kinds of supplies for equipping a coal mine.

CEMENT STONE MACHINES.—Dallas, Tex.—The Arch Cement-Stone Co., 861 Elm St., is in the market for a machine, cement, etc., as is also D. F. Harrell, of Marion, S. C.

WINDMILLS AND WATER TURBINES.—England.—Eric S. A. Smith, Sanitary Eng. Works, Bridlington, Eng., writes us that he is in the market for windmills and water turbines.

SAWMILL MACHINERY.—Nashville, Tenn.—The Tenn.-La. Lumber Co., of Nashville, and the Dargan Lumber Co., Effingham, S. C., are reported in the market for general sawmill machinery.

COMPOSITION ROOFING.—Corinth, Miss.—The Taylor Compress Co., J. W. Taylor, owner, writes us that it is in the market for 2,000 squares of composition roofing, and wishes prices and samples at once.

WOODWORKING MACHINERY.—It is reported that J. M. Broutwell, of Alabama City., Ala.; W. H. Smalley, 213 W. 14th St., Wilmington, Del.; W. L. Thomas, Valdosta, Ga.; R. L. Wood, Pres. Dixie Mfg. Co., Montgomery, Ala., and Lock Box 4, Akoskie, N. C., are in the market for various kinds of woodworking machinery to be used for different purposes.

SCRAPERS, ROAD MACHINES, ROAD ROLLERS, DUMP WAGONS, ETC.—Union Springs, Ala.—R. E. L. Cope, Mayor, is reported as soon to be in the market for the above in connection with the proposed city improvements.

APPARATUS FOR CREOSOTING WOODEN PAVING BLOCKS.—New York, N. Y.—Olney & Warren, 36 Dey St., N. Y., write us that they wish the names and addresses of firms making apparatus for creosoting wooden paving blocks.

ORNAMENTAL IRON WORK, BEAMS, TRAP DOORS, IRON STAIRS, LIGHT WORK, ETC.—New York, N. Y.—S. Fischer Miller, C. E., 1133 Broadway, writes us that he is in the market for the above in connection with a contract he has secured for a 6-story stable building.

LIME BRICK MACHINERY.—Argentina.—Carlos Krag, C. E., and Contractor, Obaas del Puerto, Concordia, A. R., writes us that he wishes to be put into communication with firms manufacturing and installing machinery for making lime brick, etc. Catalogues, etc., are wanted.

AUTOMATIC CUT-OFF VALVE.—Sylacauga, Ala.—H. O. Jones, Asst. Engr. for Arthur Pew, M. Am. Soc. C. E., Atlanta, Ga., writes us that he wishes to be placed in communication with manufacturers of automatic cut-off valves, electrical or otherwise, such as is used on water mains near water towers, etc.

WIRE GLASS.—Canton, China.—Purnell & Paget, Archs. and Civil Engrs., Canton, write us that they are in the immediate market for about 8,000 sq. ft. of wire glass. There will be four pieces, each 185 × 110 ft. Quotations are wanted at once; give sizes, delivery c. i. f., Hongkong, terms of payment, etc.

ELECTRICAL SUPPLIES.—It is stated that the following are in the market for various kinds of electrical supplies: S. M. Zinn, Grafton, W. Va.; E. L.' Ferran & Co., Eustis, Fla.; F. W. Siebert, Lexington, N. C.; Lagrange Mills, of La Grange, Ga.; the Luray Gas Co., Luray, Va.; Texas Construction Co., Houston, Tex.; and J. A. Sims, Mayor, of Richland, Ga.

DIGGING OR EXCAVATING MACHINE.—New York, N. Y.—Eugene Sheridan, Contractor, 17 Broadway, writes us that he wants the names of dealers in a small digging machine, and which would carry the dirt to a central point to be washed. The machine is intended for a placer gold mine in Georgia, where the dirt would be carried a short distance and thrown into a washer.

BUILDING SUPPLIES.—The following are understood as in the market for general building supplies: E. McCormick, Brookhaven, Miss.; D. J. Phipps, 1118 26th St., Newport News, Va.; T. E. Campbell, Lexington, S. C.; General Supply & Con. Co., 24 State St., N. Y.; O. D. Murray, Claremont, N. C.; B. B. Smith, Moses Bldg., Montgomery, Ala.; S. M. Zinn, of Grafton, W. Va., and D. F. Harrell, of Marion, S. C.

city of Guanajuato, is the principal owner. A portion of the hotel will be built at once, and the whole structure completed as the requirements of business warrant.

COLONIES.—Sinaloa.—An Austin, Tex., report states that G. C. Probasco, an engineer of Los Angeles, Cal., has obtained a concession to survey all public lands in the state of Sinaloa, aggregating more than 20,000,000 acres. The Government will grant to Mr. Probasco one-third of all lands he surveys. It is estimated that he will get 7,000,000 acres. He proposes to establish a number of American colonies. A surveying corps of 50 engineers is being organized, according to the report.

FOREIGN CONTRACTS—EXPORT NEWS.

The names of parties awarded contracts are printed in capital letters.

WATER-WORKS.—Spain.—Municipality of Huelva will let contract May 10 for water supply system.

RAILWAY STATION.—Mozambique.—The Government of Mozambique have decided on the construction of a large railway station at Lourenco-Marques. Offers will be received by the Minister of the Marine, Lisbon.

BRIDGE.—Portugal.—Minister of Public Works, Lisbon, will open tenders May 9 for the construction of the Lezirla metal bridge on the road, from Mertola to Villa Real de Santo Antonio, between Castro Marim and Vila Real de Santo Antonio.

RESERVOIR.—England. — Corporation Water-Works Committee of Leeds has decided to recommend the City Council to accept the tender of R. MacALPINE & Co., of Glasgow, for the construction of Colsterdale reservoir, the tender being $1,485,000.

BRIDGES.—Indo China.—Contract will be let at Hanoi, Aug. 29, for the work of constructing 12 bridges including the foundations, masonry work, supplying and placing of the metal framework, and for supplying and placing of the metal superstructure for small bridges. Work to be executed on the Hue-Quang-Tri line.

MINING.—Spain.—A limited company with a capital of $200,000, with headquarters at Madrid, 6 and 8 Carmen (entruelo), has been formed to operate copper mines of Guadalajara. M. Le Comte de Romanones has been appointed President; don Arthuro Duran, Secretary; don Jose de Haro, Managing Director; and don Manuel Lucas y Moreno, Technical Director.

MINING.—South Australia.—The South Broken Hill Silver Mine Co. is just completing the erection of a new set of winding engines, built by Walker Bros., of London, which are the largest of their kind yet erected in Australia. A new milling and concentrating plant will shortly be installed and a scheme for handling the ore in the surface works entirely by a system of belt conveyors is now under consideration. W. E. Wainweight, Manager, South Mine, Broken Hill, is open to consider offers for conveyor belts.

BRIDGE.—India.—The contract for a new bridge over the River Indus at Khushalgarh has been placed by the Secretary of State for India with the TEES SIDE BRIDGE & ENGINEERING WORKS, LTD., of Middlesbrough and London, England. The bridge, which has a double deck carrying the railway on the top and a roadway below, consists of a cantilever span of 471 ft.—the slung portion being 261.8 ft. and an anchor span of 303 ft. The main girders are placed at 20 ft. centers and have an overall depth of 52 ft.

PORT WORKS.—Chile.—Bids will be opened in the Ministry of the Treasury, Santiago, Chile, April 2, 1906, for the construction of the improvements in the port Valparaiso, in conformity with the provisions of law No. 1711 of Nov. 16 last, and with the project, plans, and specifications of the engineer, Jacob Kraus. Bids are to be taken either for the whole of the general and supplementary works or only for the general works. The estimated cost of the general works is $10,427,032, and the estimated cost of supplementary works is $1,669,346.

RAILROAD.—Ecuador.—In our issue of March 2 we stated that a party of engineers had sailed for Ecuador to take charge of the construction of a railroad from Guayaquil to Quito. We are informed that the party mentioned above was merely intended as a reinforcement for the present engineering corps, which has been continuously in the field on location and construction since the fall of 1898. The Guayaquil & Quito Ry Co., Archer Harman (not Archer Harrison at stated in our item of March 2), Pres., which connects sea level tropical Ecuador with temperate Ecuador is now completed and in successful operation.

PUBLIC AND PRIVATE WORKS.—Argentina.—Our correspondent in Buenos Aires sends us the following information concerning public and private works in Argentina:

Railway.—It is given out that the La Plata Government has finished negotiations with the southern and western railway companies for the construction of a line from Medanos to Patagones and the construction of an irrigating and navigable canal between Conesa and San Blas. It is stated that the Southern Railway Co. will advance $5,000,000 to the Province for the realization of the scheme, in exchange for bonds earning 5%.

Railway.—It is reported that Messrs. De Bruyn and Otamendi, of Buenos Aires, concessionaries for 3,000 kilometers of narrow gage railways in the Provinces of Buenos Aires and Santa Fe, have succeeded in interesting Parisian financiers in their scheme. D. Alvear, concessionaire for a line from Rosario to Bahia Blanca, is also said to have been successful in forming a syndicate to take up his concession. This has also been done in Paris.

Tramway Extensions.—According to information furnished by Mr. S. C. Marengo, Buenos Aires, General Manager of the Buenos Aires & Belgrano Tramway Co., that company has received concessions for two new branches and expects to commence work on them just as soon as plans can be prepared. The first branch will start from the Palermo station, crossing to the Chacarita by Calles Darraguire, Guatamala, Thames, Vera, Humbolt, etc., thus passing the populous suburbs of Villa Alvear and Malcolm and placing them in direct communication with the center. The other branch will be from Belgrano to Villa Urquiza and will shortly be continued to Villa Devoto. The two branches above noted will be an addition of about 25 kilometers.

Railway.—An agreement was reached Feb. 21, by Guillermo White, F. Henderson, representing the Buenos Aires Great Southern Ry.; Santiago Brian and Mr. David Simson, representing the Buenos Aires Western Ry.; and Dr. Urgarte, Governor of the Province of Buenos Aires and his Minister of Public Works, Senor Echeverry, which will permit the two railways to construct about 2,500 kilometers of new lines in the Province of Buenos Aires.

Railway.—The shareholders of the Sociedad Mercantil del Chubut have been considering the construction of a light railway from Bahia Eugenio to the Zanja, or as it is better known as the Campamento de Villegas. The length would be about 70 kilometers. The line would pass to the south of Chubut. The project has been well received and will in all probability be carried out.

Tramway Extension.—The Buenos Aires Electric Tramway Co. has applied for permission to extend its line to Palermo Park, which means an addition of some 16 kilometers to its present system.

Telephone Extension.—The government has granted a period of two years to the United River Plate Telephone Co. in which to join up its lines between Buenos Aires and Rosario, for which it has been granted a concession. The plans and tariffs are to be presented to the government within six months. If the terms of this decree are not complied with the concession will be annulled.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*DIVERSION DAM, REGULATOR, ETC.—Denver, Colo. —The following bids were received April 10, by U. S. Reclamation Service, Raymond F. Walter, Engr., under schedule No. 1, for construction of diversion dam, regulator, sluice and drop complete, in connection with Main Supply Canal, Belle Fourche Project, South Dakota; the addresses of the bidders are given with the bids received on schedule No. 2, which will be found elsewhere in this column:

Bids received at Denver, Colo., April 10, on Schedule No. 1 for Diversion Dam, Regulator, Sluice and Drop complete.

Bidders	Concrete 11,000 cu. yds.	Paving 18" thick 6,900 sq. yds.	Riprap 1,250 sq. yds.	Cast Iron Gates, Grooves in place 56,000 lbs.	Pedestals, Stems and Screws in place 14.	Structural Steel in place 46,200 lbs.	Steel Sheet Piling 22 ft. long 500 lin. ft.	Excavation Foundation underwater 3,000 cu yds.	Excavation Foundation above water 7,000 cu. yds.	Native Lumber 70,000 ft. B. M.	Driving and Pulling Sheet Piling [illegible]	Totals
S. R. H. Robinson	$4.95	$2.18	$2.50	.05	$70	.04¾	$26.00	$1.50	.80	$18.50	$ .30	$99,936
Jas. Munn & Edward Hanschka	4.95	2.70	2.50	.05	100	.055	23.00	1.50	.22	20.00	1.50	104,136
Carroll Contracting Co.	5.50	2.00	5.00	.08	150	.075	1.60	2.16	.44	32.00	1.10	104,845
Henry Wyttenbach	5.65	1.75	1.28	.09	250	.075	24.00	1.25	.50	22.00	.60	109,520
*Faris-Kesl Const. Co.	4.50	3.25	2.35	.07	105	.07	34.65	2.50	.50	60.00	4.00	122,011
Orman & Crook	6.25	2.50	2 00	.09	75	.06	32.00	1.00	.25	35.00	1.25	122,437
Widell, Finley Co	6.75	2.75	2.95	.05	35	.055	28.00	1.50	.35	30.00	1.00	127,293
W. C. Bradbury, Denver, Colo.	5.85	4.40	3.80	.07¼	104	.059	23.00	1.75	.20	33.00	4.50	134,912
Phalen & Shirley, Callahan Bros. & Katz	6.50	3.50	3.50	.09	265	.08	25.30	1.00	.30	35.00	2.50	136,421
Bates & Rogers Cont. Co.	7.45	2.75	2.00	.09	75	.09	27.50	.75	.60	40.00	4.80	143,873
Deeks & Deeks	7.30	2.50	2.50	.10	300	.08	52.80	2.50	.50	35.00	.60	154,921
Winters, Parsons & Bloomer	7.50	2.70	2.25	.10	300	.08	52 80	2.00	.50	34 00	.50	156,468
Kilpatrick Bros. & Collins Cont. Co.	8.91	3.21	2.97	.07	109	.09	26.24	2.00	.25	25.00	1.50	178,345
Burrell Const. Co.	7.00	4.00	3.00	.05	350	.06	30.00	3.00	2.00	35.00	4.00	165,272
Keltie Contracting Co.	6.50	7.00	3.00	.08¾	325	.10	32.56	1.50	.60	25.00	1.00	165,850

*If awarded this contract will bid $0.15½ per cu. yd on Class 1, Excavation under Schedule 2.

BRIDGE.—New York, N. Y.—Following bids were received April 11 by Department of Bridges, New York City, for constructing University Heights Bridge; (1) R. H. Hood Co., 220 Broadway; (2) Williams Engineering & Contracting Co., 13 Park Row; (3) United Engineering & Contracting Co., 13 Park Row; (4) Snare & Triest Co., 39 Cortlandt St.; (5) J. C. Rodgers, 1909 Amsterdam Ave.; (6) Naughton & Co., 258 Broadway; (7) Jos. Gallo, 127 Mulberry St.; all New York bidders:

Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
24,400 cu. yds. dredging	$1.75	$0.25	$1.60	$0.40	$0.40	$0.40	$0.50
663,000 ft. sheet piling	.85	.65	.40	.40	.60	.41	.35
200,000 lin. ft. piles driven and cut off	.50	.25	.30	.20	.40	.35	.25
60,000 ft. grillage	.50	.28	.20	.30	.25	.35	.30
12,000 cu. yds. broken stone, gravel or riprap	1.60	1.05	1.00	.55	1.50	.60	.90
500 cu. yds. rock excavation	2.00	3.00	4.00	3.00	3.00	2.00	2.00
10,000 cu. yds. earth excavation below high water	3.00	1.50	1.00	2.00	2.00	.80	1.00
20,000 cu. yds. earth excavation above high water	.75	.70	.30	.60	.50	.70	.50
95,000 cu. yds. filling	.35	.15	.50	.25	.30	.25	.20
122,000 cu. ft. cribwork	.10	.20	.06	.10	.07	.08	.30
33,600 cu. yds. concrete	7.00	5.00	6.50	6.00	5.00	5.90	7.00
4,600 cu. yds. finished concrete	8.00	6.00	8.00	6.00	10.00	6.80	9.00
400 cu. yds. limestone masonry	25.00	9.00	12.50	12.50	10.00	15.00	20.00
2,700 cu. yds. granite ashlar masonry	22.00	21.00	24.00	35.00	22.00	27.00	24.00
9,200 cu. ft. granite coping	2.00	2.00	2.50	3.00	2.00	3.15	3.00
1,080 cu. ft. granite caps and bases	3.00	2.50	2.35	3.00	2.00	2.35	2.50
2,900 cu. ft. granite bridge seats and pedestal blocks	2.00	1.50	2.00	3.00	1.75	1.85	2.00
354,000 lbs. steel and iron, erected and painted	.05	.04½	.03 85/100	.04	.04 6/10	.05	.04
1,230 lin. ft. ornamental railing, erected and painted	8.00	7.25	6.00	4.00	8.00	7.70	5.00
1,341 lin. ft. pipe railing, erected and painted	5.00	4.25	3.80	1.00	3.75	4.15	3.00
14 lamp-posts, erected and painted	125.00	100.00	35.00	25.00	87.00	45.00	50.00
1,200 lin. ft. vitrified pipe conduits	.60	.65	.10	1.00	.20	.75	3.00
1,050 lin. ft. iron pipe conduits	.60	.50	.20	.25	.40	.25	1.00
2,500 cu. ft. concrete steel	.80	.38	.50	.50	.60	.50	.50
2 281 sq. yds. asphalt pavement removed from old spans	.60	.20	.10	.30	.60	.20	.25
2,800 sq. yds. asphalt pavement laid	2.15	2.00	2.00	1.00	2.00	2.25	2.00
8,650 sq. yds. Medina sandstone pavement laid	2.75	2.85	2.50	1.50	2.40	2.80	2.50
10,600 sq. yds. telford macadam pavement laid	1.50	1.45	1.00	1.00	1.20	1.50	1.35
1,800 sq. yds. paved gutters	2.50	2.85	.30	.50	1.60	1.25	1.00
15 cast-iron drain boxes	30.00	5.00	12.00	10.00	20.00	10.00	10.00
18 cast-iron junction boxes in pavement	40.00	6.00	12.00	10.00	20.00	30.00	20.00
100 lin. ft. wrought-iron downfalls	1.00	.60	.50	.50	2.00	1.00	1.00
1,200 lin. ft. 12-inch vitrified pipe	1.25	3.50	.65	.50	1.00	1.50	.80
20,500 sq. ft. cement sidewalk	.22	.22	.05	.07	.10	.09	.15
12,500 sq. ft. new bluestone flagging	.30	.30	.25	.20	.25	.30	.28
2,200 lin. ft. granite curbing	1.50	1.25	1.30	1.00	1.75	1.75	2.00
890 lin. ft. new bluestone curbing	1.25	1.00	.90	.50	.75	1.00	.80
8,700 sq. ft. old flagging relaid	.15	.08	.03	.10	.05	.05	.05
2,120 lin. ft. old curbing relaid	.50	.06	.10	.20	.10	.10	.10
1,400 sq. ft. crosswalks	1.25	.65	.80	.70	1.00	.65	.75
1,000 lin. ft. brick sewer	5.00	10.00	7.00	4.50	5.00	8.00	8.00
60 lin. ft. 15-inch sewer pipe	1.50	1.25	1.25	.60	2.00	3.00	1.00
5 new sewer basins, complete	200.00	100.00	125.00	150.00	150.00	150.00	100.00
6 new sewer manholes, complete	150.00	100.00	60.00	50.00	60.00	100.00	100.00
5 old basin heads, reset	75.00	10.00	15.00	20.00	10.00	50.00	25.00
11 old manhole heads, reset	40.00	10.00	5.00	5.00	5.00	50.00	20.00
100 cu. yds. brickwork	15.00	14.00	15.00	10.00	12.00	20.00	2.00
2 shelter houses, complete	4,000.00	2,500.00	1,580.00	1,500.00	2,500.00	3,500.00	3,000.00
4 canopies, complete	1,000.00	1,500.00	850.00	500.00	2,000.00	990.00	800.00
4 pair of gates, complete	600.00	150.00	100.00	50.00	200.00	288.00	100.00
Removing buildings	1,000.00	100.00	1.00	10.00	10.00	100.00	300.00
Furnishing and maintaining engineer's office and boat	4,000.00	1,000.00	1,000.00	300.00	1,000.00	2,500.00	500.00
Totals	$809,829	$609,697	$638,567	$595,989	$633,519	$641,899	$671,002

*DREDGING.—New York, N. Y.—Following bids were received April 17, by Lt.-Col. W. L. Marshall, U. S. Engrs., for dredging in Coney Island channel: W. H. Beard Dredging Co., 21 State St., New York, 36 cts. per cu. yd., measured in scows; time, three months. R. G. Packard Co., 130 Pearl St., New York, 37 cts. per cu. yd., scow measurement; time, two months.

GRADING, SURFACING, ETC.—Boston, Mass.—Bids were received April 3 by Metropolitan Park Commission for grading, surfacing and other work at Revere Beach Parkway, Everett and Medford, the contract being let to T. H. GILL & CO., Boston, Mass., for $17,407, the itemized bid being as follows: 4,200 cu. yds. earth grading, $0.40; 200 cu. yds. filling material, $.78; 300 lin. ft. 8-in. vit. pipe, $.36; 1,200 lin. ft. 10-in. vit. pipe, $.44; 1,200 lin. ft. 12-in. vit. pipe, $.62; 700 lin. ft. 15-in. vit. pipe, $.74; 5 cu. yds. 3d class stone masonry, $7; 39 concrete catch-basins, $29; 1,940 sq. yds. concrete gutters, $.70; 100 lin. ft. edgestone, including 50 ft. [...]ed, $1.25; 5,400 cu. yds. loam surfacing, $.24; 400 [...] yds. loam placed, $1.35; 13,800 sq. yds. broken [...] surfacing, $.44; 3,400 sq. yds. walk surfacing, $.25; [...] sq. yds. tar roof felt waterproofing, $.20; 1,500 [...] wood block paving, $.30; 10,100 lin. ft. two-rail [...] fence, $.16.

PAVING AND SEWER MATERIALS.—Minneapolis, Minn.—Following bids were received March [...], by City Council, for furnishing paving materials: B[...] (1) 30,000 sq. yds., (2) 500 sq. yds. special brick: C[...] and Brick Co., Cleveland, O., blocks, (1) $0.99 per [...]; Alex. Van Hafton, Minneapolis, brick, (1) $0.95 [...]1, Iowa; blocks, (1) $1.0701, (2) $1.271, Hocking [...]ks, (1) $1.0701, (2) $1.271, Nelsonville. Metropo[...] Paving Brick Co., Canton, O., blocks, (1) $.984, (2) [...]4. Purington Paving Brick Co., Galesburg, Ill., blo[...] (1) $.98, (2) $.98. Indiana Paving Brick & Block C[o.], Indianapolis, Ind., blocks, (1) $.9765, (2) $.9765. [...] blocks, 10,000 sq. yds.—Alex. W. Van Hafton, Minneapolis, $.49 per sq. yd.; Dumas Backus Lbr. Co., Minneapolis, $.60; F. M. Barnard, Minneapolis, $.62½; Leaf L[...]ber Co., Feeley, Minn., $.48½; Page & Hill Co., Minneapolis, $.60. Sandstone blocks, 30,000 sq. yds.—Kettle River Quarries Co., Minneapolis, $1.48 per sq. yd. Crushed [...] 1,000 cu. yds.—Asa Paine, Minneapolis, $2.75 per cu. yd. Crushed granite.—Western Granite Constructing Co., St. Cloud, Minn., $2.29 per cu. yd. Sewer Castings, 200 tons. —Eagle Foundry Co., Minneapolis, $55 per ton; Standard Foundry Co., Minneapolis, $47.50; Northwestern Foundry, Minneapolis, $52; Menzel & Jeffery, Minneapolis, $49.75. Brick, 2,000,000.—Wis. Red Pressed Brick Co., Minneapolis, 100,000 (immediate), 600,000 (June 10) $9.05, 500,000 after, $9.90; Minneapolis Paving & Cement Brick Co., Minneapolis, cement brick, $8.25; Landers, Morrison, Christenson & Co., Minneapolis, 500, $9.92; Asa Paine, Minneapolis, 150 Menomonie, $9.75, 350 Excelsior, $9.75, 1,500 Chaska, $9.40. Clay Pipe, (1) Redwing Sewer Pipe Co., (2) Landers, Morrison, Christenson Co., 6-in., (1) $.10 per ft., (2) $.09½; 9-in. (1) $.16½, (2) $.17; 12-in. (1) $.30, (2) $.31; 15-in. (1) $.42, (2) $.43½; 18-in. (1) $.60, (2) 61 cts.; 24-in., (1) $1.25, (2) $1.27; Y's, 6-in. × 9-in., (1) 66 cts. each, (2) 68 cts. each; 6-in. × 12-in., (1) $1.50, (2) $1.55; 6-in. × 15-in., (1) $2.10, (2) $2.17; 6-in. × 18-in., (1) $3, (2) $3.05; 6-in. × 24-in., (1) $5, (2) $5.08; 12-in., (1) $1.30, (2) $1.33; 15-in., (1) $1.82, (2) $1.85; 18-in., (1) $2.60, (2) $2.58; 24-in., (1) $4.16; 6-in. slants, (1) 30 cts., (2) 30 cts. Curb, 5,000 lin. ft. granite, per lin. ft.: Western Granite Constructing Co., St. Cloud, Minn., straight, 69½ cts.; radius, 79½ cts.; Robert Graham, St. Cloud, Minn., straight, 65 cts.; radius, 75 cts.; Kettle River Quarries Co., Minneapolis, straight, 66 cts.; radius, 76 cts.

Sandstone curb, 10,000 lin. ft.: Kettle River Quarries Co., Minneapolis, 5-in. x 18-in., 44 cts., 54 cts.; 5-in. x 20-in., 46 cts., 56 cts.; 6-in. x 20-in., 55 cts., 65 cts.

BRIDGE.—New Haven, Conn.—Following bids were received April 10 by C. W. Kelly, Cy. Engr., for constructing bridge at Kimberly Ave.; contract was temporarily tabled awaiting approval of plans by U. S. War Department; (1) Russell Contracting Co., 156 Fifth Ave., New York; (2) F. T. Ley & Co., Springfield, Mass.; (3) Charles W. Blakeslee & Sons, 58 Waverly St., New Haven:

Items.	(1)	(2)	(3)
Filling 2,500 cu. yds...	$ .50	$ .75	$ .70
Concrete abuts and ret. walls 600 cu. yds.....	6.38	9.40	8.25
Concrete foundations ... cu. yds............	11.52	29.00	11.00
Concrete in superstructure 237 cu. yds......	11.60	14.00	11.00
Concrete fence 276 lin. ft..................	1.00	5.00	6.50
Timber tie beams 1,660 ft. B. M...............	29.00	45.00	100.00
Piles 369..............	7.00	12.00	9.00
Riprap 40 cu. yds......	1.75	1.75	3.00
Temporary bridge......	1,357.00	1,500.00	1,100.00
Granite coping 100 lin. ft.....................	1.00	2.00	5.00
Brick pavement 420 sq. yds.....................	1.84	1.85	2.75
Macadam pavement 1,800 sq. yds.........	.66	.58	.75
15-inch drain pipe 15 lin. ft.................	.55	.80	2.50
10-inch drain pipe 100 lin. ft.................	.33	.70	1.50
Receiving basins, 4.....	48.00	25.00	40.00
Steel I beams, etc., 87,270 lbs...............	.03	.03	.03
Twisted steel bars 28,320 lbs...............	.044	.04	.06
"Kahn" bars 14,000 lbs................	.05	.05¼	.06
Expanded metal, etc., 2,000 lbs............	.06	.06	.12
Totals.............	$19,890.00	$26,887.00	$25,285.00

*CANAL EXCAVATIONS, ETC.—Denver, Colo.—Following bids were received April 10, by U. S. Reclamation Service, Raymond F. Walter, Engr., under schedule No. 2, for canal excavations and embankments (including embankment at diverting dam) for main supply canal, Belle Fourche Project, South Dakota:

THE ALBERGER CONDENSER CO., of 95 Liberty St., New York, has recently opened a branch office in the Home Insurance Bldg., 205 La Salle St., Chicago.

THE HURLEY TRACK-LAYING MACHINE CO., of Syracuse, N. Y., has let contracts for the construction of five track-laying machines to be delivered April 1.

THE H. W. CALDWELL & SON CO., of Chicago, announce that it is now exclusive selling agents in the U. S. for the Salem elevator buckets manufactured by the W. J. Clark Co., Salem, O.

THE PITTSBURG CONSTRUCTION CO. announces that its offices have been removed from Bissell Block, to eighth floor, Diamond Bank Building, Fifth and Liberty Aves., Pittsburg, Pa.

THE SULLIVAN MACHINERY CO., of Chicago, announces the establishment of a new branch office in Salt Lake City, Utah, Room 128, Keith Building. John C. Taylor, formerly of the Denver office, is manager.

THE UNION FILTER CO., Pittsburg, reports that it could not use the name of the American Filter Co., and so will use the above instead. The address of the company will be changed after April 1 to the Diamond Bank Bldg.

THE CLIMAX STOCK GUARD CO., of Chicago, reports that it has been awarded a contract for 25 carloads of its cattle guards for use on a part of the Long Island Ry., which is to be converted to the third-rail electric traction system.

THE APEX EQUIPMENT CO., 11 Broadway, New York, reports that at its annual meeting the following were elected: W. U. Taylor, Pres.; C. B. Jordan, Vice-Pres. and Secy.; J. S. Drake Treas. and Gen. Mgr., the latter succeeding M. C. Davis.

THE C. & C. ELECTRIC CO., Central Bldg., New York, reports that H. H. Pease, for several years connected with the Nernst Lamp Co., has recently assumed charge of the Pittsburg territory for the C. & C. Electric Co., and has offices in the Park Bldg., Pittsburg.

THE TRACTION CO. OF AMERICA, Drexel Bldg., Philadelphia, has been organized, with a capital of $10,000,000, for the purpose of assisting local companies in securing railroad facilities for their respective communities. This company controls a gasoline car system as well.

THE SYMMS & POWERS CO., heating and ventilating engineers, Sioux Falls, S. Dak., wish to get in touch with manufacturers of boilers, engines, gas engines and electrical machinery and supplies connected with power plants, sewage and water supply stations. R. R. Keely is Ch. Engr.

Bids received at Denver, Colo., April 10th, on Schedule No. 2, for Canal Excavations and Embankments.

Bidders	Excavation: Class 1, 800,000 c. y.	Class 2, 1,000 cu. yds.	Class 3, 1,000 cu. yds.	Class 4, 1,000 cu. yds.	Overhaul 200,000 c. y.	Totals
Widell-Finley Co., Mankato, Minn	$ .129	$ .25	$ .56	$1.25	$ .01	$107,260
Knowlton & Bolien Co., Port Collins, Colo	.13¾	.35	.50	.95	.015	114,800
S. R. H. Robinson, St. Louis, Mo	.14	.38	.60	1.00	.01	115,980
W. C. Bradbury, Denver, Colo	.155	.40	.40	1.20	.015	129,000
Kilpatrick Bros. & Collins Construction Co., Beatrice, Neb	.155	.45	.45	.85	.02	129,750
Henry Wyttenbach, Sturgis, S. Dak	.16	.32	.45	.90	.015	132,670
Daniel J. Burke, Alliance, Neb	.15$\frac{11}{16}$	.38	.39	.89	.02	133,160
Orman & Crook, Pueblo, Colo	.16	.30	.40	.85	.02	133,550
*Faris-Kesl Construction Co., Boise, Idaho	.16	.85	.95	1.25	.015	134,050
James Munn & Edward Hanschka, Deadwood, S. Dak	.17	.34	.45	.90	.015	140,690
Winters, Parsons & Boomer, Spokane, Washington	.17	.40	.45	.90	.015	140,750
Phalen & Shirley, Callahan Bros. & Katz	.18	.35	.45	.95	.015	148,750
Deeks & Deeks, St. Paul, Minn	.185	.60	.75	1.25	.015	153,600
Carroll Contracting Co., St. Louis, Mo	.19	.45	.70	1.50	.015	157,650
Bates & Rogers Construction Co., Chicago, Ill	.22	.50	.75	1.00	.03	184,250
Keltie Contracting Co., Joliet, Ill	.24	.50	.75	1.15	.02	198,400
Burrell Construction Co., Oakland, Cal	.35	.70	1.50	1.70	.04	291,900

*If awarded this contract, will bid $4.25 per cu. yd. on Concrete under Schedule No. 1.

BRICK PAVING.—Danville, Ill.—Bids were received April 6 by Board Local Improvements, W. H. Martin, Cy. Engr., for paving Collett St. with brick for a length of 4,700 ft., and a width of 32 ft., on a 6-in. foundation of natural cement concrete. The curb is to be of Ohio sandstone 4 × 18-in. The bids received were as follows: (1) 21,000 sq. yds. paving; (2) 9,000 lin. ft. curb; (3) 1,600 lin. ft. curb reset; (4) 300 ft. 24-in. sewer; (5) six sewer inlets; (6) 900 ft. marginal curb: Interurban Construction Co., Danville, (1) $1.33¼, (2) $.38, (3) $.07, (4) $1.80, (5) $28.75, (6) $.25; J. H. Palmer, Palmer Band Bldg., Danville, (1) $1.24, (2) $.35 and $.70, (3) $.07, (4) $2, (5) $30, (6) $.25; ALPHEUS CRUZAN, Danville (awarded contract), (1) $1.32½, (2) $.34 and $.68, (3) $.06, (4) $1.80, (5) $28.50, (6) $.25.

*WATER PIPE.—Oswego, N. Y.—Following bids were received April 15 by Water Department, F. W. Ormsby, Secy., for furnishing and delivering cast iron pipe and specials for lake water extensions; (1) bid per ton for pipe, (2) per lb. for specials: Camden Iron Works, 400 Chestnut St., Philadelphia, Pa., (1) $26.70, (2) $.02½; U. S. Cast Iron Pipe & Foundry Co., Philadelphia, Pa., (1) $27, (2) $.02½; Charles Millar & Son Co., Utica, N. Y., (1) $27.15, (2) $.02½.

*QUARRYING AND CRUSHING.—Washington, D. C.—Morris Hacker, Supt. Roads, writes us that bids were received April 15 by District Commissioners for quarrying, crushing and delivering on cars stone at District of Columbia quarry for a term of five years, the Standard Lime & Stone Co., Baltimore, Md., offering to do the work at 93 cts. per cu. yd. From 25,000 to 75,000 cu. yds. are to be quarried.

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE NATIONAL WOOD PIPE CO., Los Angeles, Cal., reports that it has shipped several carloads of pipe to South Africa.

THE AMERICAN BRIDGE CO., of New York, has removed its engineering and architectural department from 7 West 22d St., to 42 Broadway, New York.

THE C. & C. ELECTRIC CO. announces the removal of its offices to the West End Trust Building, Broad and Market Sts., Rooms 201 and 202, Philadelphia.

THE C. & C. ELECTRIC CO. states that beginning May 1, the general offices of the company will be located at the works, at Garwood, N. J. A branch office will be established at No. 149 Broadway, N. Y.

THE ECONOMY BLAST HOLE LOADERS which were formerly manufactured by Cope & Cornelius, are now manufactured by the Cyclone Drilling Machine Co., of Orrville, O. The company has also, orders for the Cyclone Contractor drills, and Coal and Water well drills.

THE DODGE COAL STORAGE CO. has acquired the business of the United Telpherage Co., of New York. Communications intended for the latter company should be addressed to "The United Telpherage Department" of The Dodge Coal Storage Co., 49 Dey St., New York.

GEO. BEST AND B. K. ELLIOTT announce that the partnership lately existing between them, doing business as the Elliott Electric Blue Print Co., has been dissolved by the sale of all property and business to the B. K. Elliott Co., a corporation, 723-725 Liberty Ave., Pittsburg.

TUCKER & VINTON, INC., 156 Fifth Ave., New York, has been succeeded by Tucker & Vinton Corporation, organized under the laws of the State of New York, with a capital of $200,000. The personnel, policy and methods of the new company will be the same as those of the old.

THE WYCKOFF PIPE & CREOSOTING CO., INC., Stamford, Conn., has been awarded the contract for furnishing 1,000 creosoted yellow pine piles, 65,000 lin. ft., for delivery at Colon, Isthmus of Panama. The Isthmian Canal Commission received bids for these piles on Feb. 21.

THE GEORGE WHITING CO., of Chicago, manufacturing machine tools, reports that on May 1 it will move from its present location at 428-448 North Halsted St. to its new works at 156-164 West North Ave. The change is made on account of the necessity of more room and improved facilities.

THE MICKLE-MILNOR ENGINEERING CO., Drexel Bldg., Philadelphia, reports that it has been appointed representatives of the C. & G. Cooper Co., builders of Corliss engines. The M.-M. Eng. Co. is representative for H. R. Heinicke, Inc., chimney builders, and Herron & Bury Mfg. Co., air compressors.

THE WILLIAMS ELECTRIC MACHINE CO., of Akron, O., report a large number of sales during the past month of its magnetic clutches, among their customers being a state university, a brass rolling mill, an engraving company, and a large clay manufacturing company, which show the diversified application of these clutches.

GEO. C. CALLAHAN & CO., 910 Tacoma Building, Chicago, are now general agents for the Indian Asphalt Co., and carry a stock of asphalt at their warehouse. This includes the Cimmerian asphalt for waterproofing and painting, which material was used for waterproofing the concrete viaduct forming the western approach of the Thebes cantilever bridge.

THE WAUKESHA EXPANDED METAL CO., of Waukesha, Wis., informs us that it is erecting an extensive addition to plant, which will be equipped with a number of its new expanding machines. It is also stated that owing to special methods of manufacture the cost of the product has been reduced, so that it now costs little more (in place) than wood lath.

THE WELLS BUILDING CO., of Milwaukee, has contracted with Allis-Chalmers Co. for the complete unit of its new power plant, consisting of one vertical cross compound Reynolds-Corliss engine direct connected to a 500-KW. Bullock D. C. generator, engine type. The cylinders of the engine are to be, respectively, 24 and 40 ins. in diameter, with a 36-in. stroke.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., announces the removal of its general offices from Chicago to its Reliance Works, Milwaukee. The Chicago district office will be removed from the New York Life Building to the First National Bank Building. The company is reported as intending to make very extensive additions to its new works at West Allis, Milwaukee.

THE NEW ERA GAS ENGINE CO., of Dayton, O., has just installed in its machine shop a 60-in. Colburn boring mill, which is intended to finish fly-wheels in almost one operation by the use of four or five automatic heads. The above company also expects to install a new cylinder boring machine of the latest type, which will be added to a number of new machines recently added to their works.

THE AULTMAN CO., Canton O., will offer its plant for sale, at public auction, at 10 o'clock a. m., May 9, 1905, which consists of real estate, buildings, machinery, tools, patterns, patents, merchandise manufactured and in process, furniture and fixtures, etc. For further information, address J. J. Sullivan, Trustee in Bankruptcy, Central National Bank, Cleveland.

THE AM. DIESEL ENGINE CO., 11 Broadway, N. Y., reports the following recent contracts for Diesel engine installations: Baldwin Locomotive Works, Philadelphia, 450-HP.; Gorham Mfg., Co., Auburn, R. I., 450-HP.; Wm. Knabe & Co., Baltimore, 225-HP.; Citizens' Electric Light & Ice Co., Lebanon, Ind., 345-HP.; City Pumping Plant, Menasha, Wis., 150-HP.; Baxter Springs (Kan.) Electric Co., 75-HP.; Effingham (Ill.) Light & Power Co., 240-HP.

DODGE & DAY, Engineers, Philadelphia, who have for the past three years designed the electrical equipment for operating the hoisting and conveying machinery built by the Dodge Coal Storage Co., will also have charge of similar work in connection with the Telpherage apparatus that will now be manufactured by the Dodge Coal Storage Co., as a result of their acquisition of the United Telpherage Co.'s interests.

THE DAVENPORT LOCOMOTIVE WORKS, of Davenport, Ia., states that it is now building for the Oregon State Portage Ry. a Mogul 2:6:0 locomotive; total weight 66,000 lbs.; weight on drivers, 55,000 lbs. Special equipment consists of Westinghouse air brakes, Monitor injectors, Nathan lubricator, U. S. metallic packing, Buck headlight and cast steel frames. The Oregon State Portage Ry. is a railroad built and operated by the State of Oregon.

JOHN F. ALLEN, 370-372 Gerard Ave., New York, reports sales of his riveters during the month of March to the following concerns: Briggs-Seabury Ordnance Co., Sharon, Pa.; Pierson & Goodrich, N. Y.; Springfield Boiler & Mfg. Co., Springfield, Ill.; Baltimore Bridge Co., Baltimore; Groton Bridge Co., Groton; Berger, Carter & Co., San Francisco; Amer. Tank & Tower Co., Elgin, Ill.; Amer. Car & Foundry Co., Memphis; Christopher & Simpson, St. Louis.

THE SHENANGO FURNACE CO., of Pittsburg, has recently made an increase in its blowing capacity at the Sharpsville, Pa., works, by the installation of another standard type vertical Reynolds-Corliss engine, with steam and air cylinders of 44 and 84 ins. diameter, respectively, and a 30-in. stroke. This is one of the ordinary long cross head blowing engines which Allis-Chalmers Co. has been furnishing for some time past from the Scranton works.

THE TURNEY DRIER CO. has associated with the Henry Vogt Machine Co., Louisville, Ky., and moved the office and works to the Henry Vogt Machine Co.'s plant and elected new officers: Adam Vogt, Pres.; Henry Vogt, Vice-Pres., and Albert H. Vogt, Secy. and Treas. They are now installing the latest improved machinery to manufacture the direct heat and steam driers, roller and filter presses, and have secured large amount of additional capital to carry on the business.

A COMMERCIAL INTELLIGENCE BUREAU has been organized at the American Consulate in Prague, Bohemia, Austria, by Mr. Urbain J. Ledoux, the resident Consul. A complete card index is kept of exporters and importers, foreign and American; and catalogues, price-lists and other commercial literature are to be kept on file for the ready reference of those desiring information regarding American products. In a circular letter received from Mr. Ledoux he requests American manufacturers and exporters to forward him copies of latest catalogues, etc., for filing.

THE LAZIER ENGINE CO., of Buffalo, and the Du Bois Iron Works, Du Bois, Pa., have completed arrangements for the manufacture of the Lazier gas and gasoline engines. Arthur A. Lazier, former Vice-Pres. of the Lazier Gas Engine Co., and patentee of the engines, has secured the entire control, which will be known hereafter as the Lazier Engine Co., Ellicott Square, Buffalo. It is understood that the entire $300,000 plant of the Du Bois Iron Works, with all of its equipment, will be given over to the manufacture of the Lazier engines. The Lazier engines are built in 18 sizes, from 2 to 10-HP.

THE HYDREX FELT & ENGINEERING CO., 120 Liberty St., New York, devotes its energies exclusively to waterproofing. This is the first company which, besides offering waterproofing material, also draws up plans and specifications and attends to the engineering details of this class of work. The manager of the new company is Edward W. DeKnight. The new company is an off-shoot of the old-established concern of F. W. Bird & Son, East Walpole, Mass. "Hydrex" felt has been specified for the Pennsylvania Tunnel under New York City, the B. & O., Pennsylvania improvements at Washington, and other important projects.

THE LACKAWANNA STEEL CO. will increase the blowing capacity of its furnaces at Lackawanna, N. Y., by the installation of three vertical, steeple type, cross compound blowing engines. These engines are each to have one high pressure steam cylinder 46 ins. in diameter, one low pressure steam cylinder 86 ins. in diameter, and two 84-in. air cylinders. The stroke is to be 60 ins. The valve gear will be of the Reynolds-Corliss type, especially designed for this kind of machine. Each of these engines will deliver, under normal working conditions, 33,000 cu. ft. of free air at 18 lbs. pressure to the sq. in., the steam pressure at the throttle to be 150 lbs. and a vacuum of 2[illegible] ins. They will be made by Allis-Chalmers Co., at their works in Scranton, Pa.

THE BLAISDELL CO., of Los Angeles, Cal., patentees and manufacturers of sand vat distributors and excavators and tailings stacking machinery, for cyanide plants, has recently closed contract with the Black Mountain Mining Co., of Magdalena, Sonora, Mex., for a complete installation of the Blaisdell system.

The Black Mountain Mining Co., which is developing the old Cerro Prieto mine and other properties in that vicinity, is erecting a complete 120-stamp (1,250 lb.) mill with a cyanide plant, having vats 40 ft. in dia. × 8 ft. deep to filter. The Blaisdell system will have a capacity of 100 tons of sand per hour.

THE SUBURBAN ENGINEERING & CONTRACTING CO., 29 Broadway, New York, has been incorporated in New Jersey, and capitalized at $100,000. In general, the plans of the company are to pursue a general engineering and contracting business. A. McD. Gray, the President, has been connected with the construction of the Tide-Water Oil Co. at Bayonne, N. J., and the Cartaret Mfg. Co., of Cartaret, N. J. Geo. L. Schenck, Secy. and Treas., has been for many years engaged in the design and construction of special machinery; and J. B. McCord has until recently been connected with the N. Y. Continental Jewell Filtration Co. of New York and Chicago, as engineer on the design and construction of filtration systems, water-works, and general contracting work.

JONES & LAUGHLIN, Pittsburg, Pa., have ordered for their South Side plant one 26 and 56 × 48 vertical cross compound condensing engine arranged for direct connection to a 800-KW. alternating current generator. The valves will be placed in the cylinder heads and the ends of the cylinders provided with shifting valves. The stem and exhaust valves of each cylinder are to be operated by separate eccentrics. The balance wheel on the engine will be 18 ft. in diameter and of about 100,000 lbs. weight. With 140 lbs. initial steam pressure, 26 ins. vacuum in the exhaust pipe near the low pressure cylinder, 90 revolutions per minute, this engine will develop 1,160 I. HP. with a consumption of not more than 13¼ lbs. of dry steam per I. HP. per hour. Allis-Chalmers Co. have the contract for this engine, which is a duplicate of two previously furnished by them and now in operation at Jones & Laughlin's plant.

THE VARIETY MFG. CO., Chicago, reports that it has been awarded the contract by the Pittsburg Terminal Warehouse Co. for all the fire doors they will require in their 38 new warehouses which are now under construction in Pittsburg; Chas. Bickel, Arch. There are 708 doors in all amounting to approximately 35,000 sq. ft. These doors are to be made of wood covered with tin, according to the rules of the underwriters, and to be hung under the same rules. This company also manufactures the Cross horizontal folding door, a warehouse and freight house door. Besides the above-mentioned articles they are manufacturers of joist hangers, post caps, fireproof window frames and other building specialties. New York office, Geo. N. Cole, 277 Broadway; Minneapolis office, W. M. McGillicuddy, 415 Sixth Ave., South; St. Louis office, St. Louis Fire Door Co., 211 Chestnut St.; New Orleans office, W. W. Bierce, Ltd., Hennen Bldg.

THE PNEUMATIC ENGINEERING CO., 128 Broadway, New York, has completed the installation of an air-lift system in the plant of the Scranton (Pa.) Coal Storage & Warehouse Co. The well from which the water was to be pumped is sunk 835 ft. from the surface, passing through coal measures for a distance of almost 450 ft. To overcome the contamination caused by the strata of coal, it was necessary to sink a casing 8 ins. in diameter around the outside of the well for a distance of 450 ft., the casing then being filled with a thin cement composed of equal parts of clear Portland and sand. The air-lift pipes were then submerged 500 ft., making a lift to the surface of 190 ft., and from this point pipes were led 104 ft. to a tank placed on the roof of the building. The power end of the system consists of one 12 x 11 x 16 straight line Rand compressor. The compressor was started at 75 revolutions per minute and at a pressure of 105 pounds lifted the water 294 ft. at the rate of 8,000 gallons in 90 minutes, or 104,000 gallons every 24 hours.

THE COFFIN VALVE CO., of Boston, has just received a sub-contract through The T. A. Gillespie Co., for all of the sluice gates for the new Pittsburg filtration plant. This contract is notable inasmuch as a large number of the valves are to be electrically controlled. The principal items consist of the following: Sluice gates; 1 8 ft. 4 ins. × 6 ft., operated by ball bearing stands; 1 6 ft. 8 ins. × 6 ft., operated by ball bearing stand; 4 6 ft. × 9 ft., electrically controlled; 4 6 ft. × 9 ft., operated by ball bearing stand; 3 6 ft. × 8 ft., electrically controlled; 1 6 ft. × 8 ft., operated by ball bearing stand; 5 6 ft. × 7 ft., electrically controlled; 46 5 ft. 3 ins. × 7 ft., operated by hydraulic cylinders; 1 5 ft. × 6 ft., electrically controlled; 2 72 ins. circular, operated by ball bearing stand; 4 60 ins. circular, operated by ball bearing stand; 8 48 ins. circular, operated by ball bearing stand; 2 30 ins. circular, operated by ball bearing stand; 7 24 ins. circular, operated by ball bearing stand; 4 48 ins. check valves; 4 36 ins. gate valves, electrically controlled; 3 30 ins. gate valves, electrically controlled.

F. L. SMIDTH & CO., New York, report that last week they made one shipment to the Lehigh Portland Cement Co., at West Coplay, Pa., of seven carloads containing three Smidth kominuters and four Davidson tube mills, to be installed in the revision of the mill "B" plant. In addition to this they have taken the order of the same company for 18 kominuters and tube mills for use in the raw and clinker departments of the new mill "G" to be built in Southern Indiana. They have also contracted with the Lawrence Cement Co., of Pennsylvania, to do the engineering work and supply the grinding machinery for the large extension to their plant in Siegfried, Pa.; kominuters and tube mills will be used for both raw and clinker grinding. Orders for kominuters and tube mills have been received from J. B. Speed & Co., of Louisville, Ky., for their new Portland cement plant at Speeds, Ind., the raw material and clinker grinding being done exclusively with these machines. The Elk Portland Cement & Lime Co. will reconstruct their mill at Elk Rapids, Mich., using the dry process instead of the wet process as heretofore. Smidth & Co. are doing the engineering work as well as supplying some of the grinding machinery.

THE ARCHER IRON WORKS, 36 La [illegible] St., Chicago, manufacturers of mining and industria[illegible] and apparatus for handling materials, announc[illegible] Mr. W. F. Klemp has resigned his position as Pre[illegible] and is not now connected with the company in any [illegible]ner.

THE AM. CREOSOTE WORKS, LT[illegible] New Orleans, La., reports that the Illinois Central R[illegible] has awarded it the contract for all the creosoted mate[illegible] to be used in the reconstruction of the Stuyvesant Do[illegible] This order amounts to about 6,000 piling, from 40 [illegible] 30 ft., and several million feet of caps and stringe[illegible] in 1903 this company furnished the Illinois Central w[illegible] several thousand piling, which were used for additio[illegible] Stuyvesant Docks at that time. During the recent [illegible] this addition was the only portion that was not destro[illegible]

THE C. O. BARTLETT & SNOW CO[illegible] Cleveland, report that it met with a severe loss by fi[illegible] April 11th. The main buildings were badly damag[illegible] The office buildings were not much damaged and th[illegible]r and engine were not badly injured. The grea[illegible] was in patterns. The largest part of its mach[illegible] was not seriously injured. The company has im[illegible]ely commenced to get its buildings in shape and [illegible] to start up in the machine shop department at [illegible] and in its boiler shop within two weeks. The Ohi[illegible]amic Co., the McMyler Mfg. Co., the Bowler Found[illegible] and the Cleveland Gas Light & Coke Co., and oth[illegible]ve offered the Bartlett & Snow Co. the free use of [illegible] of their tools, therefore it will be able to comple[illegible] contracts and fill its orders with little delay. Small [illegible]rs can be filled from stock which was not damaged. [illegible] company just previous to the fire reported the fo[illegible]ing sales: Rockefeller Bldg., Cleveland, ash and [illegible] elevator; Ohio Retarder Co., Pt. Clinton, triumph [illegible]m dryer; Western Ore Separating Co., Salt Lake, dir[illegible] heat rotary dryer; Henrietta (Ariz.) Cyanide & Dev. Co[illegible] direct heat rotary dryer; Grasselli Chemical Co., Cl[illegible]and, large conveying outfit; Standard Oil Co., Clevela[illegible] conveying outfit; Iroquois Portland Cement Co., Caled[illegible]ia, N. Y., two direct heat rotary dryers; National Min[illegible] Co., Pittsburg, large conveying outfit with capacity of 175 tons of coal per hour; I. E. Boomer, Detroit, trium[illegible] sand and gravel digger, elevator and grader for elevatio[illegible] and grading 40 yds. per hr.; Royal Crown Lead Co., Detroit, paint machinery; Glidden Varnish Co., Clevelan[illegible] O., paint machinery; Shoub Paint Co., Wellsville, paint machinery; Cameron & Barkley, Charleston, conveying and elevating machinery; Sandusky (O.) Portland Cement Co., No. 3 direct heat rotary dryer for drying 10 tons of crushed rock per hour; E. H. Alverd, Marble Mount, Wash., paint machinery; Ross Keller Tripple Pressure Brick Machine Co., St. Louis, crushing, conveying and sand mixing machinery; Hudson (N. Y.) Portland Cement Co., Portland cement machinery; Bellville (Ont.) Portland Cement Co., Portland cement machinery; Crescent Portland Cement Co., Wampum, Pa., feeders and Portland cement machinery; Brighton (Pa.) Chemical Co., elevating and mixing machinery; Am. Iron & Steel Co., Lebanon, Pa., coal conveyors, Guignard Brick Works, Columbia, S. C., sand and clay dryers.

BRICK PAVEMENT.

Wellsville, N. Y.

Sealed proposals will be received by F. M. Leonard, City Clerk, at Wellsville, N. Y., until 8 P. M., May 9th, 1905, for paving South Main St., from State St. to Rauber St., with brick.

The surface to be covered is approximately eleven thousand (11,000) sq. yds.—4,300 lineal feet of curbing. A certified check for $500 must accompany each bid.

Bids will also be received for the trenching and laying of 1,000′—18″ pipe and 300′—8″ pipe. Also for the construction and furnishing the material (by the cubic yard) for a concrete arch culvert 3′ × 4′ × 85′ in length.

The city reserves the right to reject any or all bids.

Specifications, form of contract and general plans may be obtained from the City Clerk or the undersigned.

R. H. LEE.
16-2t City Engr.

WATER PIPE AND CASTINGS.

Wilmington, Delaware.

Sealed proposals addressed to the Board of Water Commissioners, Wilmington, Delaware, and endorsed "Proposals for Supplying Cast Iron Pipe and Specials," will be received at the office of the Water Department, Southeast Corner Sixth and King Streets, Wilmington, Delaware, until 1.30 P. M., on Monday, the first day of May, 1905.

The approximate amounts will be as follows:
3,600 tons of 48″ bell and spigot pipe.
2,400 tons of 42″ bell and spigot pipe.
140 tons of special castings.

Alternative bids will be received for 9,500 feet of 43″ riveted steel pipe.

Blank proposals and specifications may be obtained at the office of the Department.

Each proposal must be accompanied by a certified check for $5,000.

The right is reserved to reject any or all bids.

THEODORE A. LEISEN,
16-1t Chief Engineer.

U. S. ENGINEER OFFICE, Buffalo, N. Y., April 20, 1905.—Sealed proposals for breakwater extension at Cape Vincent, N. Y., will be received here until 11 A. M., May 20, 1905, and then opened. Information furnished on application. H. M. ADAMS, Lieut.-Col., Engrs. 16-2t-19-2t

U. S. ENGINEER OFFICE, Newport, R. I., April 20, 1905.—Sealed proposals for dredging in New Bedford Harbor, Mass., will be received here until 11 A. M., May 10, 1905, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs. 16-3t

SEWER CONSTRUCTION.

Sealed proposals for the construction of a System of Sewers will be received by the Borough Council of the Borough of Mount Carmel, Pennsylvania, at the Council Chamber, up to 8 o'clock P. M. of the fourth day of May A. D., 1905. Proposals to be addressed to John Carl, Chairman Sewer Committee, and endorsed "Proposals for Constructing System of Sewers," and must contain a certified check drawn upon a National Bank, or Trust Company, and made payable to the Borough of Mt. Carmel, for a sum equal to five (5) per centum of the total amount of the proposal.

The work to be done consists of approximately ten (10) miles of brick and terra cotta pipe sewers and appurtenances. Plans can be seen and specifications, blank forms of proposals and contract can be obtained either of the Chairman of the Sewer Committee at Mt. Carmel or at the office of the Consulting Engineer, at Wilmington, Delaware. The right to reject any and all bids is reserved.

JOHN F. GIBBONS,
Chairman Sewer Committee.
T. CHALKLEY HATTON,
Consulting Engineer. 16-2t

PROPOSALS FOR DRESSED LUMBER—YELLOW PINE OR DOUGLAS FIR.—Office Isthmian Canal Commission, Washington D. C., April 24, 1905.—Sealed proposals, in triplicate, will be received at the office of the Purchasing Agent, Isthmian Canal Commission, Washington, D. C., until 10.30 o'clock A. M., May 19, 1905, at which time they will be opened in public, for furnishing about 14,000,000 feet of Dressed Lumber—Yellow Pine or Douglas Fir. Blanks and full information may be obtained from this office or offices of Asst. Purchasing Agent and Shipping Agent Isthmian Canal Commission, 24 State St. New York City, or at Custom House, New Orleans, La. H. J. GALLAGHER, Major U. S. Army, Purchasing Agent. 16-5

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PROPOSALS FOR RECONSTRUCTING PIER.—U. S. Engineer Office, 262 Huron Street, Cleveland, O., April 17th, 1905.—Sealed proposals for reconstructing and repairing parts of the West Pier at Lorain Harbor, Ohio, will be received at this office until 2 P. M., May 19th, 1905, and then publicly opened. Specifications, blank forms and all available information will be furnished on application to this office. DAN. C. KINGMAN, Lieut.-Col., Corps of Engineers, U. S. A. 16-4t

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